

tcgaagagag agctgctcta gaagctaagt atcagaagtt gtatgaacca ctttactcaa 240  
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ctgaaacccc agaggagcaa aaaagtggag atgagacctc tgctgagcaa aaagaagaaa 360  
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<210> 45206

<211> 404

<212> DNA

<213> Zea mays

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tgaatgacag gttcctggaa ttaagtgcgg ttatgaatcc tggtaaacia gcaaagttgg 180  
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aaaagcttaa agaatcaaat gagaagctgc gggagaatat caaggacctg aaggaggaga 300  
agaatgagct ccgcgaagag aaagtgaggc tgaaggtaga gaaagataag ctggagcagc 360  
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<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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aagcacatgc ggcattgctt gcagaatacc atccagtggg tgaaacgcaa gtccaccacac 180  
gcgttcgcaa ccgtccgtgg cagccagcta ggagaacggg ggaacctaat taacagcagt 240

cgcgctcgga gccgcggcg acatgaaaat gaaaaaaaaa acacatccat ctgtagctac 300  
 gcgtaaaaac tgatctactg gacgctttga ctaatgctag tgtaatgtag gtgtagtagc 360  
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 <211> 173  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 atgcttaact taagcttttt ggtgaatatt ttcttatgtt caatecttaa ctt 173

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 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 45209

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 gacggaggag agggagcctc gaagatgttc cggaaccagt acgacaccga cgtgacgaca 180  
 tggagcccc aggggagggt gttccagggt gagtacgcca tggaggccgt caagcagggc 240  
 tccgcctgcg tcgggctccg gtcgagcacc cacgccgtct tagccgccgt caacaagccc 300  
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<210> 45210  
 <211> 258  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
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<400> 45210

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 gccgtgggtgt ccctgacccc aagatcagga tctaccatgt ctggatgaag aggaaagggtt 180  
 gttattactt cccctactgt gttcaccttg tttttttgga aaatgaaaat gtttccattt 240  
 tttctcctca atcttccc 258

<210> 45211  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B10

<400> 45211

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 agg 63

<210> 45212  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B12

<400> 45212

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 ccataatagc ccagagagca gacgaggcat ggcgacgtcc gtggcctgcg ccttcttctt 180  
 cttcgacgcg gcggagccgc tgggcgagac cgggcggcgg caagcgctgg acgcctgcgc 240  
 gctctgctcc aagccgctgg cccgcaacag cgacatcttc atgtacaggg gcgacacccc 300  
 gttctgcagc gaggactgcc gctacgagca gatgcaccac gacgcggctg ccacggccta 360  
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<210> 45213  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B3

<400> 45213

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tgcagctcaa gcgtgaggcc cggttgaagg gtgggttcta tgtgagccca gaggccaagc   180
ttctgtttgt ggttcgcctc cgtggatatca atgccatgca cccaagacc cgcaagatct   240
tgcagctcct gcgattgagg cagatcttca acggtgtctt cctcaagggtt aacaaggcaa   300
ccattaacat gctgcgcagg gtggagccat atgttgcgta cggatacccc aacctgaaaa   360
gcgttaggga agtcatctac a                                           381
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<210> 45214  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-035-Q1-K1-B4

<400> 45214

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ggtccaaaca agagtggcca tatatcattg caaaatatga agacggcctt gatgaaaaat   180
tcttcgggtg caatgaatga ttctaggatt cttgactttg ttaactcaat atgcaatatc   240
caatatggca tgattgattt tgaagagttc tctgctacgg ccattagtgt atatcaaattg   300
gaaggcctgg agacctggga agaacatgct caacaagcat atgaattgtt tgacaaggag   360
ggcaaccgac caattgtgat tgaagaactn gcatcgga                                           399
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<210> 45215  
 <211> 53  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B8

<400> 45215

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<210> 45216

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B9

<400> 45216

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cggagggcat gggcgtggca accatcaata taacaatcac catcacaata accagcacca 120

ccagaacaac cagccgcagt acaataacca tggcaacaac caccttggtg ggaaccgtgg 180

cagccttcac tctgttgga ctacaccgaa taacctgata accaagcttg agccgcatcc 240

gcagctgctt attggggcca acaagcttcc accaggcccc cgcctgctg atggcaccag 300

gggtttcacc atgggcaggg ggaagccaca agctgtgcta cctgggttgt gtgctgttgg 360

tgttgagtga agcatgcaga ttgctgctcg tatgcttgta ttgtatatct ttggggtgag 420

tatttgtgctg tcacactttg tggaca 446

<210> 45217

<211> 364

<212> DNA

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<223> Clone ID: LIB3076-035-Q1-K1-C1

<400> 45217

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tgtctggccg cggcaagggc ggggaagggc tgggcaaggg cggcgccaag cgccaccgca 120

aggtgctgctg tgacaacatc cagggcatca ccaagccggc gatccgcatg ttggcgagga 180

ggggcggcgt caagcgcata tccgggctca tctacgagga gaccgcggc gtgctcaaga 240

tcttctctga gaacgtcatc cgcgacgccg tcacctacac cgagcacgcc cgccgcaaga 300

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tcgg

364

<210> 45218  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-035-Q1-K1-C10  
  
<400> 45218

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ggtgtaatat ttggcactgg cgacaaacgc atcatatgtt gagaaggcaa atgctattcc 120  
aaaatgggag ggtgagctgc ccattcagg agacatggtc atcaacatgg aatggggtaa 180  
cttcttctca tctcatctcc ccactactga atatgatcaa gaattagata aggagagctt 240  
aatccagga gaacagattt acgagaagtt aacgtcagga atgtatttag gtgaaattgt 300  
aaggaggggtg ctcttataaa tatcattgca gtccgccatt ttggtgata ttgaccacac 360  
taagcttcaa acccatttcc ttctgcggta tgtgtcagct tggctttntt tgtagctgca 420  
ctctttatgt taaaatctgg aac 443

<210> 45219  
<211> 400  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-035-Q1-K1-C11  
  
<400> 45219

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ctgcggcgca tgcggagcgg ctcatccgcg cgctcaacct cctgcctaag gagaaggagg 180  
cggggccggc cgcgggcggc ggcgactggc ccagcgtggc gccgggggag ctctatagc 240  
gtcgcgtccg gctgcccggc gcgcccgcgc gcgtctggga cctcgccac cagccggat 300  
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gcaagaagaa ggaagacgac cccgtcgtga tctggctcac 400

<210> 45220  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-035-Q1-K1-C12  
  
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 gtaactgctg gtcacgtgta aggtgggtgtt gcccggtgtc aggaaacggc atcacaatta 120  
 tcaaaagctg ttattgtatt ctgatggctt aagattaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaat aaatatttct 240  
 t 241

<210> 45221  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-035-Q1-K1-C3  
  
 <400> 45221  
  
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 tcatccacca ggaaaaaac gccagctgg aacccccaaa accataacga gggtgcccgt 180  
 cctgctagcc ggtgtgcttg ctgtgcgac gtttggcatg tgcttggtga ggggttgcta 240  
 ggggattgtg agagaatgag ggntntnatn cncttnaatc cccctcaaac cactagtaac 300  
 cgaacgtggc ctgagggggc gggcgagtct ttatattgaa tgaaactaca taaaatagca 360  
 tgccgtctct gtcactggca atggacgggtg gtgcctagcg caactcatcg cacaactgtg 420  
 tgtcttgatt tttcttctgg ttatcacggc att 453

<210> 45222  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-035-Q1-K1-C8

<400> 45222

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gatcctgccc ggttgatttg cgacgatgcc ctcaccgagg tattccgcag gctgcctgcc 180

cgtgcgctcg cggcctgcag actggtgtgc aagtcattga tgtccgtgct cacagatcca 240

cacttcatcc atgagcacct gagccgtggc cagcaaaagc tgctgctctt tgcgactgac 300

aggggaaacg acaggt 316

<210> 45223

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D12

<400> 45223

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ggtggtgcaa aaatgagtga caacctgatg gacaaggtta gcgcctttgg tgagcgcttg 180

aagatcaccc ggacagaagt cagcaaaaag atgactgccg gaatgagctc catgagtttc 240

aagatgaagg agttgttcca ggggcagact ccagctgaca agattgttga ggggtgccacc 300

tcagaggatc tggacgggcc tgactggaac tcaaacttgg agatttgcca catgatcaac 360

acagagaagg ttgacagtgt ggaactcatc cgtgggatca agaagaggat catgctgaag 420

gatg 424

<210> 45224

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-034-Q1-K1-E2

<400> 45224

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acagctggta aagattttga gatctgctgc tagcgcanac cgtgatttgg tgtttgata 120

tgttggaatc aagcaatggg atgagtttgt ggagactttt gatgtttcca aaagctcaca 180  
 gctgccaaag ctacttgtgt gggatagaaa tgaggagtat gagctcgtgg atggttcaga 240  
 gagattagaa gaaggtactg accaagcatc tcaaataagc caatttcttg agggatacag 300  
 agcaggaaga acaacaaaga agaaaattag cggcccttct ttcattgggtt tcctgaattc 360  
 tctggtcagc ttgacctcgc tgtacatcct tatattcgtc 400

<210> 45225  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-034-Q1-K1-E5

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 ggaagggggg gcnnagacacc ggtattcgcn ncattcgcca gccattggan natccgcaac 180  
 ggcgggcccg cccgcanngc gcgtcgctan ngcccggggc cggccccgcg cccgcttcgt 240  
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<210> 45226  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gcaggaggcc gccgaggcct acctcgtggg gctcttcgag gacaccaacc tctgcgccat 180  
 ccacgccaag cgcgtcacca tcatgcccga ggacatccag ctgcgcgcgc gcatcagggg 240  
 cgagaggggt tgatctcccg ttgttgctgt ccacgttggt gggcctttcc tctgtgtctc 300  
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383

<210> 45227

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-034-Q1-K1-F11

<400> 45227

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aagaagaagc cggctctctg ctccgtgaag gccggcctcc agttccccgt aggccgtatc 180  
ggccgctacc tcaagcaggg tcgctactcc cagcgtgtcg gcaccggcgc ccccgctctac 240  
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cgggacaaca agaagaaccg gatcatcccg cgacacgtac tgctggcgat ccgcaacgat 360  
gaggagctcg ggaagctact ggctgcgtc accatcgac acggcggtn gctgccaac 420  
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<210> 45228

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-F5

<400> 45228

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ggcggcgccg ggcaagcgca aggcgtgct gcacacgccg tccggggagg tggtcacgtc 180  
ctacgcctcg ctggagcgca agctggcggc gctcggctgg gagcgtact acgccggcgg 240  
cggagacggc ggcgcgccg gcctgctgca gtaccacaag cgcacctccg tcgacctcat 300  
ctcgtgccc aaggacttcg cccacttcgg ctccgtccac atgtacgaca tcgtcatcaa 360  
gaaccgcgac gccttcgcg tcatcgacgc ctaattataa gctagcggat gcagcagatg 420



acagatac

428

<210> 45229  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-G1

<400> 45229

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agggtacatac gcgtcctgga ttgtcaggct cctactcgac cgcggtctaca ccgtccgcgc 180  
caccgtgcga gacaccgctg acccaaagaa aacattgcac ctgactgcgt tggatggtgc 240  
taaggatagg ctgcacttat ttaaagctag cctgctagaa gagggttctt tcgatgctgc 300  
agttcatgga tgcgacactg tatttcatac tgctctccc ttttatcaca atgtcaagga 360  
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caagaaagc 429

<210> 45230  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-G11

<400> 45230

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ttgcctgggc caccagcaac gagtcgctgg agaatgcctt cacctcctac ggcgagatcc 180  
tcgacttcaa ggtcatcacc gaccgggaga cggggaggtc tcgcggcttc ggcttcgtta 240  
ccttctcctg cgagaactcc atgctcgacg ctatcgagaa catgaacggc aaggagctcg 300  
actgccgtaa catcacgct aaccaggccc aatcccttgg cggttgctgt 350

<210> 45231  
<211> 308  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-G4

<400> 45231

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gctctcttga tctcagccat ggcggaggtg gagcagcaac aggacacgcc gaagctcttc 120

aaccgctgga ccttcgatga tgtccaggtg aacgacatct cgctgaacga ctacctcgct 180

gtgaacgcga cgaagcacgc gatgtacctg ccgcacaccg cggggcgcta ctccaagaag 240

cggttccgca aggcgcagtg cccgatcggt gagcgcttac aaactccctc atgatgcacg 300

ggcgcaac 308

<210> 45232

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-G8

<400> 45232

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agcgtctggc ccaagtggtc tttgccacgt tcttgagctc cccaacaac acgatggggc 240

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<210> 45233

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-G9

<400> 45233

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caccttgagt ctggccatgt cgacaaacta aaactcagaa acattatcat gagtagtggt 180  
ttttttcggt tctctttcct ggattt 206

<210> 45234  
<211> 271  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H1

<400> 45234

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cgcacacatg ttcaagaccc agtaggggtt tttccccct gcttctcatg gatgggtgct 120  
gcttggtgat gccgagaata aatgtggatg gcgcgtgcct ctgggtcgcc aggttcatgc 180  
tgagtctgga catgttttgc acttttggtt cccttctgc taccatctgt gacagatccg 240  
ctcgctaata tgggacctga gattagcttg a 271

<210> 45235  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H12

<400> 45235

cggacgcgtg ggcgcctgga cagcggcctg atccgaaacc tccaagatgc cctgtaacga 60  
aggcaaccag gagagcacgt gcagattata gactatatga tggtgaggtg actgtccaaa 120  
gaagctacaa gggatcatcat gcgcccctta tttccctcat gagtaaatgg acaggtaaac 180  
caattggggg gtaccctgtc acccttgaag ttttgaggga tagtcgtcac acaacaagt 239

<210> 45236  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H2

<400> 45236

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 aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaga ggggaaaaaa aaaaaaaaaa aaaaatgggg 180  
 ggggggtata taaaaaaaaa aaatttatatt ataggtgaaa ttaaaattaa atttaataaa 240  
 tgtggtaaaa aaaaaaaaaa tatttttaaac ctttttttaa aactaaatta attgaaaaaa 300  
 acaataaatt acccaaatta aaaatttttt aaaaaaaaat aagtcccaa ataatgcgta 360  
 ttacaaaa 368

<210> 45237  
 <211> 160  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-034-Q1-K1-H3

<400> 45237  
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 aaaaaaaaaa acatattntt aaaaaacaaa caaaaaaca ataccaccaa aagcccaccc 120  
 cccctcaaaa acccaaacac acaatcaaac aaagaaaaac 160

<210> 45238  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-034-Q1-K1-H4  
 <400> 45238

atctgagaat tggcgcagga tggcatggcg atgtaaaaaa atgagggtac tgttgtacat 60  
 ttctttttgt agccatttta tggcggtaga taacttgttt gaagcatcgg taatgacgtg 120  
 tggggccaaa tcattcttac tcgagttcgc acggatttga tcatccgaac atcatggtcg 180  
 atgtttcttct gagtgggtgt ggggtgtgggg ccaaatcatg tcagcgggcc a 231

<210> 45239  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H5

<400> 45239

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gtacatccgc cgggccgggc cgggcagcag ggagataacc gaggagggca ggtgcgacct 120  
ggacaggaga tacgtgagta acttccccgt ctacgacggc cgcggecccg acgccagcct 180  
tgtggcccg gcgtcagggga ttaccagcga aatcggggaac gcgcaccaac tgttcgtcgt 240  
tgtgttcgac accgacaggc tcaagggtc cagctcgtc accaatggcg tgataacggc 300  
cgggtctgac gagtgggcga tctacggcgg taccggggtg ttgcatgg cgaggggcgt 360  
cataaggaga aggtatctcg ccgacagggg ccgcggggaac actgatgagc tcaacatgga 420  
tg 422

<210> 45240

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-E1

<400> 45240

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ccactccatg caaatctgcc accgagactt gaagctggag aacacgcgtc tggacggcag 120  
cccgggcgct cgcctcaaga tctgcgactt cggttactcc aagtcgtcgc tgctgcactc 180  
gaagcccaag tcgacggtcg gcacgccggc gtacatcgcc cccgaggtgc tctcccgccg 240  
ggaatacgac ggcaagacag ccgatgtgtg gtcctgtgga gtcactcttt atgtgatgct 300  
ggtcggtggt tacccttttg aggaccaga cgacccaaag aatttcagaa agacgatcgg 360  
gaggatcatg tcaatccaat acaagatacc agagtatgtg cacgtgtcg 409

<210> 45241

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H6

<400> 45241

tcacctaatc tgcgatcacc aagcgcatta tatttaggag atgcaaactc aggtatatgc 60  
cctattccct agagtaaag acaggtaaac caattgtggg gtaccctgtc accctggagg 120  
ttt 123

<210> 45242  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H7

<400> 45242

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcatg tgggagccac tgatggatag 60  
ttaccggcct ttgggaataa aatctctgag gttcagcaca ttttctcttg gaaatatgtc 120  
accaaagata gaagagcaaa aaattcagta caccattcat accattggag gaagcttaac 180  
tgcagttcat ggattttttg tccaacttgg tgtcaatgtg gatacgagtg actgggagct 240  
tcaagctctg ggaagacttt cggttactgt ggcaaagcaa gccaaagctcg accgcttccc 300  
catcaccatt agtgatccaa tctcagctac gttcgggtgaa ccatttgaga aagccaaccc 360  
aagccattcc tccacagcaa tcgtttgtcg agctgggttca ggaattgata tgggttggtg 420  
ccttgtttct tctagtct 438

<210> 45243  
<211> 116  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-H9

<400> 45243

agccttccgc caacccttcc gcggccccctt ggggtttttt tttttttgcg gtttgaaggg 60  
tttgaatggg gtggtttgtt tccagttttc caaccgttta agtaatgtgg tttttc 116

<210> 45244  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-C1

<400> 45244.

cccacgcgtc cggaccgcct ggttccactt ccaccacggc gtgcactagc gctacgccga 60  
ggccaccttt tcttggttcc ttcaatacgc ctactccggc ctccggatcg ggcaccacgt 120  
ctgccccctg ctcccggaat ctttgccaag cggcgccgct actgtccggc aaggcgaccc 180  
cgtctctcgg cgggcgttga tctggcgggc ggagtggcgg cgcgatgggc atctcggcga 240  
ggtggctcaa gtcgttagtt gggttgagga aggtggggcg gcagcagcag cagcggcgaa 300  
aggatgatgc agatgttggc cgaatgaaaa ccgatgtcgc cgaccagttt cattttcaga 360  
ttcagcactc tcaagatgac aatagcattg ctgcacaaga aattccagag gtttcttatg 420  
gaaatgatcc acctgaagat gattctaattg taccttcatg c 461

<210> 45245

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-034-Q1-K1-C11

<400> 45245

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gatgtaacta actaactaac tggctagcta gctcgatccg cagagcaaag cgaaagcagc 120  
aagaagcaaa gcaatggaga accctgcgag tgtgctagtt ctaccagcgc agttcaccaa 180  
actcaccttc ggaaacctgt acatccgccg ggccggggccg ggcagcaggg agataaccga 240  
agaaggcagg tgcgacctgg acaggagata cgtgagtaac ttccccgtct acgacngccg 300  
cgcccccgac gccagccttg t 321

<210> 45246

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-034-Q1-K1-C12

<400> 45246

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ttataactac aaaaccatth atatatthcta ththththcaaa thtacaathh atactthctc 120  
ctththactth atccactthc ththaaththct caccaccatc thcatacatta ctaththcctt 180  
tattcttaac catacacatc ctctattaca taaaaaccac ctactatata caacatctat 240  
attcta 246

<210> 45247  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-C2

<400> 45247

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ctatccgtgc thgcgatgat ththtagctg thtatgaatca cgaaatgaga acacccatga 120  
atgcaataat agccctthtcc thcttgctth tggaaactga gctthactctc gagcagcgtc 180  
taatggtgga aacagtactg aaaagcagca atctgthtagc aacactcatc aatgatgtgc 240  
tagatctthc caaactcgag gatggaagcc thgaactgga gattaaagca thcaatctc 300  
atgctgththt caaagaagtg atgggththca thaaaccaat thcatctatc aagaggctat 360  
ctgtatcggg tatgthtgga ccagattthc cgttatgtgc cattggtgat gaaaagagac 420  
tcatgcaaac taththtgaac a 441

<210> 45248  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-C3

<400> 45248

aaaacccggc ccgacgcact aatgcagcag aacgthcccc ththththtacc thgaatagag 60  
gcccacacgc ctatccccac tggcgatgat thththaactg tgatgagtca ccaaathcaca 120  
acacccatca atgcaataat agccctthtcc thcttgctth thgaactga cctthactctc 180  
gagcaccatc taatggtgga aacagtactg aaaagcacca atctgthtagc aacactcatc 240  
aatgatgtgc tagatctthc caaactcgaa gatggacacc thcaactgaa cattaaagca 300



ttcaatcttc atgctgcttt caaacaagtg atgcgtatca ttaaaccaat tgcattctatc 360  
aagaggctat ctgtatcagt 380

<210> 45249  
<211> 463  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-034-Q1-K1-C6  
  
<400> 45249

cgcactacac gcacggcacg cagatacata tagagagagg ttagctatag cttgcacatg 60  
gatgtaacta actaactaac tggctagcta gctcgatccg cagagcaaag cgaaagcagc 120  
aagaagcaaa gcaatggaga accctgcgag tgtgctagtt ctaccagcgc agttcaccaa 180  
actcaccttc ggaaacctgt acatccgccg ggccggggccg ggcagcaggg agataaccga 240  
ggagggcagg tgcgacctgg acaggagata cgtgagtaac ttccccgtct acgacggccg 300  
cgcccccgac gccagccttg tggcccgct gcaggggatc accagcgaaa tcgggaacgc 360  
gcaccaactg ttcgtcgttg tgttcgacac cgacaggctc aaaggctcca cgctcgtcac 420  
caatggcgtg ataaccggcc ggtctgacga gtgggcgatc tac 463

<210> 45250  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-034-Q1-K1-C7  
  
<400> 45250

aaaaagaata ccaaagactg gcgggaacca gtttatacag atgactgacg gcagctgttg 60  
tgtgttcttt tttggatcgt cgcagagagc aagatcttca tcgaactctt tcattgtctt 120  
cacaaacgtc ctgcacctt gcattatcaa cctttccacc atgaacagct gatagttggt 180  
cttgactatc ggattcaata tgctgctgaa gttagatgaa tatgccagcc tgtacttgtc 240  
tgatagagat gaaaagaagc ctggggtoct ttcatctgag gaaatgaaaa gagtgcgacc 300  
tggtcgaatc cactttgcga ttcttttctt gataaactca gggcgagtat ctctgtcaag 360  
atgaggatga agacttcgct caactccaaa tctatctttc ctattcttca gtaggtcacc 420

tcgtctcaca tg

432

<210> 45251  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-C9

<400> 45251

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cctcagtcca cgcccccca tgggtgcagcc gctctcgccg actgatcacc ctttggggcc 120  
attccagtgt cagggaccct gcaacgactg caggaggaac caaccgctgc cgctggcttc 180  
gccgtcatca actgagctaa gcccgagaat gcccttcgta gtcaagcccc cggagaagaa 240  
acaccgcctc ccatctgctt ataatcgctt catgagggag gagattcagc gcatcaaagc 300  
tgccaagcca gatatccctc acagggaggc cttcagcatg gctgccaaaga attgggcaaa 360  
gtgtgacccg cgct 374

<210> 45252  
<211> 566  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-034-Q1-K1-D12

<400> 45252

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nnttgaagat catgtggata ctcggtggag ttcttatgaa cccaggagaa acccctcttt 120  
ccctttaaag aaatttgaag tcnncttggg tctcaaattt taaaaccagg ccattanntg 180  
gcaactnnnt ctgtgggtta tttccattt cctcttctac ttttcagaaa gtnngtcacc 240  
caacncnnct tcaggcnnct taaannaagt tgnnncagtg gagaaaaatg tcaagacttt 300  
agagnnttag ggttgggtta attctgaacc tnntctcaca cagnnttgca agaactggaa 360  
ccagcncgac ttaccattn nactgctgc nnaagtgatt tcttattctc aaagaagcta 420  
ccgagccccg aaatttnntg tgtctcaaag ccaataccct tggtataact tcgagccatt 480

tcagagatca taaaagcttt gctttccttt tttggcttcc atttaccag tcgagtcaaa 540  
aatattcact tcccaaataa acgtgt 566

<210> 45253  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D2

<400> 45253

ctgatcacc tttggggcca ttccagtgtc agggaccctg caacgactgc aggaggaacc 60  
aaccgcttgc gctggtttcg ccgtcatcaa ctgagctaag cccgagaatg cccttcgtag 120  
tcaagcccc ggagaagaaa caccgccttc catctgctta taatcgcttc atgagggagg 180  
agattcagcg catcatagct gcgaagccag atatccctca caaggaggcc ttcagcatgg 240  
cttgcaaaaa attgggcaaa gtgtgacctg cgcttctcga ctggtgtctt taccgaaact 300  
tctaacagcg ctctgtctga gctagagttg tgccactcc cca 343

<210> 45254  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D3

<400> 45254

acccttccgc ggcccccttg cccacgcgt tcgccctgtt cgtggcggtg tcggtgggcc 60  
cgaacatgtc cggcgggcac gtgaacctcg ccgtgacctt cggccccctt gtggcgggca 120  
acatcaccct gttccggggg ctctgtact ggggtggcgca gcttgctggg gtccaccgtg 180  
ggcgtgcttt cctgctccgc ttctcgacgg gcgggcaagc cacgggcacc ttcgggctga 240  
cgggcgtgtc cgtgtgggag gcgctgggtc ctgagatcgt gatgacctt cgggctgtgt 300  
acacggtgta c 311

<210> 45255  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D4

<400> 45255

aagttcgtgt ctgtagttgc taccatttct ctactctcta cgtatgtaat ttattcgcgg 60  
gaatatttat tgaaatgttg gtacggacga cagaaaaaca aagggagaat caggggttgt 120  
tggaattggat tgtagcctgc gccaccatat tttaacttca aatccgttga gatatgcttc 180  
tttttcgggt ctctttgttt ccttcctcct tttgctggag ccaactgactt tgatgtctca 240  
ccaccatttc ttcatgtcat tcccttttct ctcaacttga ggcaccccttg tgtacacaag 300  
atctgcctac gtgtttcagg ttcttgattc tgtttatatg cagtcggaag ctttaggcgg 360  
ttaggccag ctga 374

<210> 45256

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D5

<400> 45256

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gcaccgacgg ctgcgccggc ggccggccgt cgtccgacgc gtcccaggac ttcttcgggc 120  
aggtgccgga gttccaccag tgggtccgtgc cggagctccc ttccccgcc acggcctcgg 180  
ggcttcactg gcagggcggc ccgcgccaag gcgcggccac caccaccgac gtggccgccg 240  
tgttcgtgcc ggacatctcg tccccggaga accccttctg gtgctacgc accgccgctg 300  
gccaggcgcc gacgaagcgc cgcaggagat gttgaagtag ggaagatcga gattgtcttg 360  
ttcagtactg gagtggcgta ggcttgcaag aaacaaacac agttgctgta ctgtgtactc 420  
ccatggtgac gtactatcta tatactccat g 451

<210> 45257

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-034-Q1-K1-D6

<400> 45257

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ncacttacag atcgccgggc ggccggccgt cgtccgacgc gtcccaggac ttcttcgggc 120  
aggtgccgga gttccaccag tgggtccgtgc cggagctccc ttccccgccc acggcctcgg 180  
ggcttcactg gcagggcggc ccgcgccaaag gcgcggccac caccaccgac gtggccgccc 240  
tggtcgtgcc ggacatctcg tccccggaga accccttctg gtgctacgcc accgccgctg 300  
gccaggcgcc gactaagcgc cgcaagagat gttgaagtag ggaagatcga gattgtcttg 360  
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ccatgggtgac gtactatcta tatactcca 449

<210> 45258  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D8

<400> 45258

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gccaggatt tcaagaccga ccttcgcttc cagagctccg ccgtcgccgc gctgcaggag 120  
gcgtccgagg cctaccttgt cgggctcttc gaggacacca acctctgcgc cattcacgcc 180  
aagcgcgtca ccatcatgcc caaggacatc cagctcgccc gccgcacccg tggggagagg 240  
gcctaggcgt cgtcgcggtg gaggtggaag tagtagtcgc agtttctgtc atcactgtct 300  
ggctagaagt tgtagagatg tgccggttta tgtagtttgg gttattggtc gaatcattat 360  
gtagttgggt cttcactgct gtaatttaac tatgactatg caatggcaat gaagttcttc 420  
gttatcactt 430

<210> 45259  
<211> 245  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-D9

<400> 45259

aaaccccgcc cgacgcacgc atccacacaa taccacacac cttctcaccc ttattctccc 60

gttccagcgc ctcataacat ggcacgcccc tctttataac aagaccgcg caccctacca 120  
cacctccacc ctccaccatc tacactatcc tccgctccta ccttgtctga ctcttctact 180  
acaccaacct ctccccact cactccaacc actttaccat catgcccag cacatccaac 240  
tctcc 245

<210> 45260  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-B6

<400> 45260

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tgaaatggtt ggggaaacaa gtgttctgcc tgctgcggcc caaggaaaac ccaatcaaaa 180  
ccatggattg gttgcgatgg cgaagcaagc gcctgcgtct gtggaaggct acagtgatgc 240  
agaatcaccg gggagacata catcaaagaa agctggcaag cgacataagc ctgatgatct 300  
tcagaaaagc agtgttctcc ctctctgacc ccagggaaca aaaaaaccaa agcatgcgtt 360  
ggttgcgaca gagaataacc ctctctcctc agcagagcgc cgcaacgatg caaatcgcc 420  
aaaaaccaat acc 433

<210> 45261  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H1

<400> 45261

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ggttctccgg ggttcggttt cgtgggtgag cggatcgaga tggcggcgct ggatgttgag 120  
taccgtgct tcgtcggcgg cctcgctggt gccacggacg accactccct ccacaacgcc 180  
ttcagcacct acggcgaggt cctcgagtcc aagatcatcc tcgatcggga gacgcatagg 240  
tcccgcggtc tcggcttcgt caccttctcc acggaggagg cgatgcggaa cgccatcgag 300

ggcatgaact gcaaggagct ggacggtcgc aacatctccg tcaacgaggc ccattcc 357

<210> 45262  
<211> 59  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H10

<400> 45262

cacacgcgtt cggctctacc aattgacatc acttaaacad gcttcacacc cctgggaaa 59

<210> 45263  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H2

<400> 45263

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gcgcacaccc ctccctcgcg cgctcagggt ttcggaatgg aagccgaggc ggcgccaag 120

aggacgcggg agagcgggga ggacgccgc gcggcgggga tctccgtcgt catcccgga 180

tggttctccg agatcagccc catgtggccc ggtgaggcgc actctttgaa ggtggagaag 240

gtgctgttcc aagggaagtc agactaccaa aacgttatgg tctttcagtc ctctacgtac 300

gggaaggcgc tcgtccttga tggagttatt caggttacgg agagggatga gtgtgcgtac 360

caggagatga tcaactacct gccctttgc tccattaaag at 402

<210> 45264  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H3

<400> 45264

gcaaaccctg ctgctagcgc tgcgccctc tctactccg actccccatc cgtcttcagg 60

gggtcgactc tttctttgcg cgctcagggt atcggaatgg aagccgatgc ttattccaa 120

aatgactctg tagagcgtgg aggactccga cgcggcggcg atctccgtct ttattccaag 180

gatggctcta cctgatcagc cccatgtggc cctgtgaggc tcaactcttcg atggtggaga 240  
 aggttctgtt ccaatggatg ttagactacc aaaacgttat agtacttttag tcttctactt 300  
 tcggtaaggt gctcgttctt tatggatcta ttc 333

<210> 45265  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H6

<400> 45265

gtcgttcccg ctaatacgac tacattcgat gcatatcaga acacgacaac ttcgcattgg 60  
 atatatgatc ttggccggaa gaggaattct cctcacgcct tcggatatga cacaaaatat 120  
 tgggccatcc ctgcatattc agaacacgat ctcaacaaga ttccagctct acagggctct 180  
 gattattctg tcagtgcacac cagattttga tggccaacaa tcgtactggg gcaattcata 240  
 acagtgtcct cgtcagatac ctcaagtattg gacatctact catacaactg tcaacattgc 300  
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<210> 45266  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-H8

<400> 45266

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 cgtggtacgg ctaggcagag ggcgacggct gcgactgcgg cgcgtgcggg tactggacgc 120  
 tggtgacgt ggtgccgatg aaggcgcggg tggggtcggt gagccccgtg ctgttcaagg 180  
 acggctaggg ctgctgcgcc tgctacaagg tcaggtgcct ggaccgcggc gtgtgctcgc 240  
 gccgtgccgt caccgtggtc gtcacggact agtgccccgg cgggctgtgc tcg 293

<210> 45267  
 <211> 440



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-034-Q1-K1-A1  
  
 <400> 45267  
  
 gccaaagatTT gcatcaatga tgacagatta ctacccaatg gtgctatcaa gtataactagt 60  
 ttaccatcag tcaccagtcc acgggactca agcctttctt ctggcagtc tccatcgccg 120  
 gcaagtattg ttcttcatca aaggaatgac catgagagat tacacaataa tcagcaaaat 180  
 ttgtctgacc tcaaacctca aaggtacata ccacctggag ggcgtaactg ttcaagtga 240  
 atgactacat cagtaaagca tatgcagcct attgaggggtg cttgggttgca cagctcatca 300  
 aatgagcatt tgggctccaa taacgacaaa tctcaagcat cttcacagtt aggaaacgat 360  
 aattcaaatc ccaagcaaat tacttcagca gaaaatggaa catctgacac cgtgcagcaa 420  
 aagccacagt atgctgatgt 440

<210> 45268  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-034-Q1-K1-A11  
  
 <400> 45268

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 gctgcttctg gtcctctccg ggtcgtcctc gtcacgncg tcggctgctg ccacgctcgc 120  
 cgtcagcgct ccgccccac tgctgttcc tctctctcgt catgctcaag acgccgaagg 180  
 catgctcatc aacggcaact tcgagacggc gccgcggaag ctgaacaaga ccctgatcgt 240  
 ggggcgccac tcgctgccg ggtggacggt gcatggccac gtggagtacg tctcgggcgg 300  
 tccccagccc gggggcatgt tcttcg 326

<210> 45269  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-034-Q1-K1-A4

<400> 45269

cccacgcgtc cggcaacagt tgctgctact tggccgtttc caattagctg caaccctgca 60

tgggcgtgtg tttgctttgt ttttaacttgt ttctcaattg tgtggtgtta gatatgtact 120

gtcgaactgc tgtagttcaa ctttgaccca tgcaatatcc ttttgatgg aagtgaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaanaaaa aaaaaaaaaa aaaaaanaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaanaaaa 309

<210> 45270

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-A8

<400> 45270

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ttttggaaga actgggtaag attgcagttc taccaaggaa tccccatggt tttggatggc 120

tccggcctgc aattggtggt attgggcttt cttaaataat tggccaagct ggtccactca 180

acgcacgaaa aactagtgga ggtaactccg aaagaatagc acatttcttg cagctgccac 240

atttcacaga agcaactgtg aaaaagattg ctcgcaagaa aatccgtgcc ttccaagaac 300

tttgtgacat g 311

<210> 45271

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-B1

<400> 45271

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gtaggaccta ggtcaccaac tgaataggct tcacttttga gaacttgatt atgcgggtat 120

tttgtacaga atttgacagc tactcttcct aagtaaagca atggtatgat cgtatgaggt 180

tgtgaaatgt taaagagagg ttctataaat acttggcata atggtattcc tcgtaggcag 240

tctaattcaa ggaacataaa aggcataatat tgtgattacc tccatgacca tcaaaaacat 300  
cgaagaacgt tgtctcgcta ccaagatcta gcattgttga atgatgtatg gatgtataga 360  
ttggtaaata ttatgtcgtg gaacaatttt aagaaatagt ctgaccgata aaaatggtag 420  
gcatctttaa aaaataacca tgctttagt gtgatgttga acgta 465

<210> 45272  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-034-Q1-K1-B10

<400> 45272

gtgcagtttg actacccaat tttgtatcag ctccgctggg gggtacattg ccggtgtcta 60  
atgtgctatg gggtctcacc cggctgacaa ccttgtgtct ttctgaaca atgccaaggg 120  
agctacagtg ggagatgctg ttaacaagct tggctctctg ggtctctaca ctagaggact 180  
tcctcatcgt atccgcatga ttggtaccct tactgggtgct cagtggggaa ttacgatgc 240  
attcaaagtg atggttggac ttccaacaa 269

<210> 45273  
<211> 392  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-034-Q1-K1-B12

<400> 45273

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aatggtactt tgctgcaggt ccttgacaga ttttgtttct tttttcctta tcgtgcagtg 120  
acaaagggtta ttttcagggg gcaaagctga tgggtataat ttttttccat agttggcagg 180  
tgtattttca agggatgttg cttgagccca aatggatgac agcagaagtg tgatatgacg 240  
tgcgctcagc ttcaccaaca cactgattct tgaatgcatt aagcatagtg cacaagcagt 300  
tattcatgat aagaaatctt ttgctcaa atacatagaagg tgctctcaaa gacattgaag 360  
gacctctcag agatattgag ggaactctta tc 392

<210> 45274  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-034-Q1-K1-B2

<400> 45274

gaaaaaccgg gccgacggac gcgtccgcgg acgcgtgggc ggactcttgg gcggactctg 60  
ttggaaatat ttaagcttta ttaggacagt gggatctatg tcaccaactg agtaggcttc 120  
acttttgaga acttgattat gcgggtatct tgtacagaat ttgacagcta ctcttcttaa 180  
gtaaagcaat ggtatgatcg tatgaggttg tgaaatgtta aagagagggt ctataaatac 240  
ttggcataat ggtattcttc ngaggcagtc taattcaagg aacataaaaag gcatatattg 300  
tgattacctc catgaccatc aaaaacatcg aagaacgttg tctcgctacc aagatctagc 360  
attgttgaat gatgtatgga 380

<210> 45275  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-034-Q1-K1-B3

<400> 45275

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ttgtttgacc ttttctgttt catgcatttc tctgtttcc gttgttcggt gagttctcaa 120  
aactcttgac gctatgtatc tgtatctgag ttgattaaca tttgcagtat gtttttttct 180  
tggctcatag gaataggata attgaaacag ctcatctcat gagggatatg tattacaaaa 240  
ggaacccacc agcaagaggt tcaagctcta atatttcagt aaaaagttac tttgagatgc 300  
ttgccatgga tgagcatgca tctgctttct ctagaggacc tgctgaagct tttcagtgga 360  
ttngncaccc aatgagggct acctgtgcc gtatgaagag tggtttaatt taac 414

<210> 45276  
<211> 446  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-033-Q1-K1-G9

<400> 45276

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ccgatgagca cccaagatc taccgcatga agctctgggc caccaacgag gttcgcgcca  180
agtccaagtt ctggtacttc ctgagaaagc tcaagaaggt gaagaagagc aatggccaga  240
tgcttgccat caacgagatc tttgagcgc aaccgaccac catcaagaac tatggcatct  300
ggctgcgcta ccagagcagg actggttacc acaacatgta caaggagtac cgcgacacca  360
ccctgaacgg cgcagtggag cagatgtaca acgagatggc ctncgccac cgcgtgaggt  420
ccccctgcat acagatcatc aagaca                                     446

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<210> 45277

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F5

<400> 45277

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tggtgaagta ctgcaggag cggggcaacc ctaccaagtc tgctaaggcc atgggcaggg  120
atctgagggt ccacttcaag aacacaaggg agacagcctt tgcgcttcgc aagttgtctt  180
tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca attcccttac  240
ggagatactg tgggggtggt ggtcgcaccg tgcaagctaa gtcgcgccac tccaatgggc  300
aaggcccgtg gcccgtaaaa tcagacaggt tcatactgga tttgctgaag aatgctgaaa  360
gtaacgctga tgtgaaaggc ttggatgtgg acaaccttta tgt                                     403

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<210> 45278

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F6

<400> 45278

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attttttggg cttcagagaa ggcaactgta tatttgctca aatatttggt gtctcaaagt 120

ttcacatttg ctctgtttgt agttgtgagg ttaaataatt aacaaatgtc accttggttag 180

gagatgcaat ccatttatta gctttgagaa gcttctcatt aagaagtcac gtgaacttgg 240

ttgcattggt cttgcttatt attgtaagct ttgggtgttac agatccttaa tgaaacccaaa 300

gagctgcagc agataaccaa cgacaagcat aaaaatcagg ttgtacgcat ccaacatttt 360

actttcatat ttgctgaaga tgtcaacaaa caaatagac aagcagtaag tgtggcacta 420

ctttgcatgt gctaacagta tggctaattg tttttcaatc tta 463

<210> 45279

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F7

<400> 45279

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ggtttttggg cttcagagaa ggcaactgta tatttgctca aatatttggt gtctcaaagt 120

ttcacatttg ctctgtttgc agttgtgagg ttaaataatt aacaaatgtc accttggttag 180

gagatgcaat ccatttatta gctttgagaa gcttctcatt aagaagtcac gtgaacttgg 240

ttgcattggt cttgcttatt attgtaagct ttgggtgttac agatccttaa tgaaacccaaa 300

gagctgcac atataaccaa cgacaagcat aaaaatcagg ttgtactcat ccaacatttt 360

actttcatat ttgctgaaga tgtcaacaaa caaatagac aatgcagtaa gtgtggcact 420

actttgcatg tgctaacagc ttggctaatt gtttttcaat cttaatt 467

<210> 45280

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F8

<400> 45280

cgaccactc ttccgtcttc tcatatTTTT ccacatatc tctttttcta ccttgatatct 60  
 atacccttgc gccagggtta tttgtacttc agagaaggca actgtatatatt tgctcaaata 120  
 tttattgtct caaatgttca cattcgctct gtttgtactt gtgagggttaa ataattaaca 180  
 aatgtcacct tgttaccata tgcaatccat tcattatctt tgataatctt ctcattaata 240  
 atacacgtta acttagttgc attgatcctg cttattattg taagctttct tgtttcatat 300  
 ccttaatgaa accaaagagc tgcaccatat aaccaaccac aatcattaata actatgttgt 360  
 actcatccaa cattttactt tcatatt 387

<210> 45281  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G1

<400> 45281

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 agccactgac ccgagtttcc gtccagcact ccagggaacca gcgcctgttc gtccagagta 180  
 ccaacagatc tcgtcaagag gtctgaagga tgaggaaggg actgcacccct cagatgcaat 240  
 ggatttcata tgtgacgcac agtggttaggc tgatcaatat catgatgacc aaggtgaacc 300  
 atactggcaa agtgtaccac atgagggcca agcggcaaat ggctcaagcc tcggccagat 360  
 tgcgaagtgc aaacgtcgat atgagcagga agcagagaaa agcctagaca agtaggatgg 420  
 tgttggg 427

<210> 45282  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G11

<400> 45282

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 tatggggtag gcgaaaccac ctcggggcag caagcaagcg cgaccaaata gcgcctctag 120

gagaccgctg agctgctgcc gggcgggcgt ccaacaacct ggtggtgtcg ttcggcgaga 180  
 tgctgatega cttcatcccc gacttggcct ggctgtcgct ggccatagtca ggcagattct 240  
 caaggcacc cttcggtcgc ccaccaacgt tgtctgcgcc atcgccaaac tcggcggatc 300  
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 tgaaacagac aacatgaact 380

<210> 45283  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G12

<400> 45283  
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 ggctcacttg aaagagatat ttggaaactt tggcgaagtg gtgaatgtgg agctatcaat 180  
 ggaccgaatg gttaaccttc ctcgtggcta tggatatatt gaattcaaga agagagctga 240  
 tgctgagaag gctcttcttc acatggatgg tggtaaatt gatggaaata ttgttaagtt 300  
 gagattcact cttcaaccac gccaaagggc tgcacacct gtaaaagctc cgccccctcc 360  
 tccaaaaaga gatgctcttc agattgaaaa aagtgttagc agtgctgaaa aggatgctca 420  
 acagcgtcct aaggaatcat ctc 443

<210> 45284  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G2

<400> 45284  
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 acccgagaat ccgtccagca ctccatgtac catcacctgt tctttcagag taccatcaga 180  
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ta

242

<210> 45285  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-033-Q1-K1-G3  
  
<400> 45285

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tcttgatcaa agaggagaga aacagatggg ggtggacgac gggctctgcag tccgtaagcg 180  
cagctcttct gcgatggaca cagttgacga cgaccggtta cgactgtggg tttgcatgat 240  
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gtttgagctg cttgattctg acagccctgg tcggtgttca tggtcgggga ttctcttatg 360  
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cttagttggg ctccggatca tat 443

<210> 45286  
<211> 487  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-033-Q1-K1-G4  
  
<400> 45286

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tgaggagcttt caaggtagaa aagaagtctt ttgttccatc atggccttac caactccagc 180  
gcctattttg gttgacgaga accaacagat aaatagaggt aagagggcca atggaccaag 240  
ggccaaaggg ctgaagccat ccgagaatcc tggcaatcaa gggaggagag ctcttaagga 300  
tttgtccaac ttctctaaag gcactggttt gaaggacact ttcaccctga aagagaagtc 360  
ccagcagaaa actcgtagta atgtggccaa cactattaaa ggcaatgctt tgaaggacaa 420  
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gaaaatt

487

<210> 45287

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G5

<400> 45287

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aagcagcaag aagcaaagca atggagaacc ctgcgagtgt gctagttcta ccagcgcagt 180  
tcaccaaact caccttcgga aacctgtaca tccgccgggc cgggccgggc agcagggaga 240  
taaccgagga gggcaggtgc gacctggaca ggagatacgt gagtaacttc cccgtctacg 300  
acggccgcgg ccccgacgcc agccttgtgg cccgcgtgca ggggatcacc agcgaaatcg 360  
ggaacgcgca ccaactgttc gtcgttgtgt tcgacaccga caggctcaag ggctccacgc 420  
tcgtcaccaa tggcgtgata acggccgggt ctgacgagtg ggcgatctac 470

<210> 45288

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G6

<400> 45288

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aagcagcaag aagcaaata atggagaacc ctgcgagtgt gctagttcta ccagcgcagt 180  
tcaccaaact caccttctga aacctgtaca tccgccgggc cgggccgggc agcagggaga 240  
taaccgatga gggcaggtgc gacctggaca ggagatacgt gagtaacttc cccgtctacg 300  
acggccgctg tcccgacgcc agccttgtgg cccgcgtgca ggggatcacc agcgaaatcg 360  
ggaacgcgca ccaactgttc gtcgttgtgt tcgacaccga caggctcaag ggcttcactc 420  
tcgt 424

<210> 45289  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G7

<400> 45289

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ctaagcctag tccctgcggg tgctcctcc agaaaggccg ccgacgttct cgcgtgcccc  180
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gaccgagggg acggggcgccc taccaacggc gtcctgacg ggaggggtctt caccagctac  300
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ctcgattctg gggcgtaaa cgtggccaag gaggggttcg tgctgctgca gttegcgccc  420
gccgtggcca caccagagta cactgggact ctcaagcatg tgt                               463
  
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<210> 45290  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-G8

<400> 45290

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catgcgtgat tggctgccta atgttatact ggcgtgtcaa aggccatgtt aggagtatgg  180
catgccaaac tggtgccgtg ccgcatgac cagtaaagtc tgctgagct acgctccaga  240
cattgtctga tgcgaacgcg gacatctagc atgctcctcg tctgctgata cacacaacag  300
gaccgttcta tccagattgc atgagggcca tacgcaatgc catccatgct ctgatcatag  360
cctgctgtct aatctcatcg acgggatctg gtcattgctg                               400
  
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<210> 45291  
 <211> 473

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F4

<400> 45291

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 tttttgagat tgcagcgaac aaggatgact acaacaagtt ctatgaggcc ttcttcaaga 180  
 acctcgagct tggcatgcac gaggactgca cgaacaggac caatattgct gagctcctga 240  
 ggtgccactc gaccaagagc ggggatgagc tgaccagcct caaggattat gtgaccagga 300  
 tgaaagaggg ccagaacgac atcttataca tcaactggtga gagcaagaaa gctgtggaga 360  
 actccccgtt ccttgagaag ctgaagaaga gggcttatga ggtgctgac atggtggatg 420  
 ccattgacga gtattctatt ggacagctga aggagcttga gggcaagaag ctc 473

<210> 45292  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D9

<400> 45292

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 ggctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180  
 gtctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
 gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
 ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360  
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 gatggcgggc gcggctacgg cggtggc 447

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E1

<400> 45293

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atggagtttg tgcatttcct taaaaaccct aagaagtatg aagatttggg agctaaaata 180  
cccaaagggtg ctctacttgt aggccctcct gggacaggga agactttgct cgccaaagct 240  
acagcaggag agtctggtgt gccatttttg tctatttctg gttcagattt catggaaatg 300  
tttgttggtg ttggaccgtc cagggtacgg aacttgttcc aagaagctag gcagtgtgct 360  
cctagtattg tattcattga cgaaatcgat gctattggtc gtgcaagagg acgtggaggt 420  
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<210> 45294

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E12

<400> 45294

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gatctgaagc caatcataga tcttcagaac aatggtcagg agaaactgct tgcattctac 180  
cagatccccct ttacggttct catcaacatg cgttacatct cttaagctta cattgacagc 240  
a 241

<210> 45295

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E2

<400> 45295

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tatgcgggcg accattaaag gatacagcta gagactgctc ggatatacag gcatgctggg 180  
 gtcaaccgtg tagcacgatg ttgtccaaca ttggcaacaa tacctgtatg gattgggtctt 240  
 taccaggcac tttcaaagt accatatgag gggctattga cagaaggatt tatctggatt 300  
 ccatcactgg gtggacctac aacaattgca gtcggaacaa gtgatgctgg aatgtcgggg 360  
 ctcatcccat ttgtggatgg ccatactccg gttggctggg atgacacgat atgctacctt 420  
 gtattgcttg tgctacttga tgcttctcaa tatg 454

<210> 45296  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E3

<400> 45296

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 atggagttcg tgcatttact tatacaccct aagaactatg aagatttcag agctaataata 180  
 cccaaagggtg ctctacttgt atgccctact ttgacagcga agactttgct caccaaagct 240  
 acagcaggac agtctggtgt gccatttttg tctattttctg cttcagattt catggaaatg 300  
 ttagcagttg ttggaccgtc cacagtaccg aacttggtcc aagaagctag gcagtgtgct 360  
 cctagtatag tattcattga ccaaatcgat gctattgggc atgccacatg acgctgacgt 420  
 ttt 423

<210> 45297  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E4

<400> 45297

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 ctgccgtccc cgaagcgggg cggcggcggc atcgctcagg acggaagaa gaagaagaag 180

cgctcgctgt cgcgcgccga ggcgcgcgtg ttcgcgtcct cttcttcata ctctcctcc 240  
tctcccgcca ccacgacgcc gcggtccgtg ctggcgggcg cgccggcgct ggagatcccg 300  
cggcgggagc tggaggccgt gctgcggcgc ctgggccacg cggagccgtc cgacgccgag 360  
ctcgacccg tggccgctct cgccgcgcag ccccgctcgg gcgacgccga cgcggacgcc 420  
gacgccgacc tcatggaggg gttccgcgtg ttcgacggg a 461

<210> 45298  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E6

<400> 45298

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actcatcctt catcgtcgtc ccgagccact ctctatcttt gggggagaga gcatgcagtc 180  
aaagcaaaag gactccgact ttggtataat cttcactcat ttatttatga ccaaaggggg 240  
agtaattctt aagggtctta aatgactctg tttttggcga ttcatgccaa agggggagag 300  
agtattagcc caaagcaaaa ggaccgtacc accacctaatt tttaaaaaga gttcttcaat 360  
ttataaattt caaattggta tcttattgtg ttcaaaaggg ggagaaagta gtatttcaaa 420  
attgatatat caaaaccctc ttgaacacta agaggaggat ctcat 465

<210> 45299  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E7

<400> 45299

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gtgtcaactt tcttagcatt tctgttggtc ctctctgcc attgttaatt gccaatgttg 180  
tgggtggaga tggttctatt cttctttatg aaggagaaat tcgtgatgtt ctgataacac 240

tgacaaatgc cggaaccgta ccagttgaag aagcaaattgt tgcattgtca gggaagaatc 300  
aggattctgt tatttcgatt gctcatagca catggaaatc tgcgctccct attaaaccgg 360  
gtggagaagt gacatttgca gtgactctaa gagcctggca tctcagctca gcagatttgg 420  
aagcagatgg cagtagat 438

<210> 45300  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E8

<400> 45300

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cgatacatgg acttgtcggt actgacctc tcagacgctg acgctctatc acgctcaaga 120  
gctgaaactt tactagcatt tctagcgatt ctctatctgc catgggaaag agcctacgtt 180  
cgaagctgga gaacgttcta ttctgcttaa tgaacgctaa tttattgatg acctgatgac 240  
actgacttat gccgggccct aactaactgt agaagcagct attgattcgt cagggaaaaa 300  
gcatgatact ccaattcaga ttgatcatc cacatgctaa tct 343

<210> 45301  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-E9

<400> 45301

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ggtgagaagc caatgatagt tggtcagcac aagggggagg agaaacagtt tgcagccgaa 180  
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acgatcaaga atgctgttgt cacggctcct gcctatttca acgactcgca gaggcaggcc 300  
acaaaggatg ctgggggtgat tgctggcctc aatgtgctgc gtatcatcaa tgagccaacc 360  
gctgctgcta ttgcctatgg tcttgacaag aaggcaacca gtgtcgggtga gaagaatgtc 420



ctcatttttg accttggagg tggtagc

447

<210> 45302  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F1

<400> 45302

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gcctttttta ttgaggaaca aactagcaac cgtgatgacc cagctttctg aatcagcaat 180  
atggcgaaag agggagccca gataaagaca ggccaccata taaggagag actcgtgcac 240  
cacaagagga cgcttataaa ggacaaagat gcacccctg cacaagaatg ggcagaaatg 300  
a 301

<210> 45303  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F10

<400> 45303

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cccgcggcgt gctcaagatc tttctcgaga atgtcatccg cgacgctgtg acctacacgg 180  
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gccgcaactct ctatggcttc ggcggctagg ttaggtgtgg gtaattgcct gtccagggtg 300  
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<210> 45304  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F12

<400> 45304

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gtggagggtca ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcag 180  
ccccacctg agggccgcct tcctgatgcc actaagggtt ctgaccacct gaggcaagtt 240  
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ttgggaaggt gccacaaaga gcggtctggt ttcgaggggg cctggactac aaaccctttg 360  
gtctttgaca actcttactt taaggaactt ctgagtgggtg ataaggaagg ccttcttcag 420  
cttcc 425

<210> 45305

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F2

<400> 45305

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agaaggatgg gcttcgataa gcagatcctg agatcctgca cctgccccaa tccgattaat 120  
gtccagaatg tcaccgttca ctgcaccggc tactgtaagg atcgtgatct gtccaagaaa 180  
tcttgagca ccaatgacct tgagctgcat ccattcagtt catcatcggt catgggtcac 240  
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<210> 45306

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-F3

<400> 45306

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gggtggggag gaacaatcga gttacggtga tgacgcagct tctgatcagc agtatggtga 180  
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gaggcgtgaa agggagaagg atgcgcccc tgcacaggag tggccagaga ggaggcaacg 300  
ggatgagcgt gacatggacc gtgagaggaa tcgtgactat gacagagaca gggaaaaaga 360  
ccgtgacagg gaaagagacc gagaccgaga tagggagagg gacagagata gggagagaga 420  
gagggagagg gagaaggag 439

<210> 45307  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-033-Q1-K1-D8  
<400> 45307

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tgtacctcat ctagctgggc acggtcgga tcaagccgtg cgtgtccttc ttcggcgccg 180  
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gcagcttctt cgtgggcact ccgatgtaca tgcaccataa gc 402

<210> 45308  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-033-Q1-K1-C11  
<400> 45308

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aatgatctgg ttcatgaagg agcattcata catatttgct gattttgatg agatagtgca 180  
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attgcagcat aattgggttg atgaaatagc aaggtctgag ggtagacctg gtgtaagtgg 300  
 tggtaatgat gtgaatatta aactacaac tattaggttg cggccagcaa gaaattcgtc 360  
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<210> 45309  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-033-Q1-K1-C12

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 ccgtccttat cgccagccga accgacattg ttttctcccc ctttctcgcc ttctccttct 180  
 cccccctagt ctagaggcgt ttgctcccca atcccttcgg ccgcccgcgt cgacgtgatc 240  
 ccaccggcag ccatggatcc atacaagcac cgnccgtcta gtgtgagcaa ctccagcttc 300  
 tggaccacca actccggcgc cctcgtctgg aacaaccact ctgncctcac cgtccgacag 360  
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 gaacgt 426

<210> 45310  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-C3

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 gaggtatata aacaagtccg aattggggat ccgttggaga aaggcacctt actgggacca 180  
 ctgcacactc ctgcttcaaa agagaacttt ttgaaaggca ttcagactat caaatctcag 240

ggagggaaaa tccttttttg aggatctgcc attgaatcag aaggaaactt tgtgcaaccg 300  
acaattgtgg aaattacacc ttctgcacca gttgtgaaag aagaactctt tggtcctgtc 360  
ctttatgtta tgaaatttca gaccttgaag gaagcaattg aaatcaataa ctctgttcct 420  
caaggattga gcagttctat atttacaag aggccagata ttatTTTT 468

<210> 45311  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-C4

<400> 45311

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gaggtataca aacaagtccg aattggggat ccgttgagaga aaggcacctt actgggacca 180  
ctgcacactc ctgcttcaaa agagaacttt ttgaaaggca ttcagactat caaatctcag 240  
ggagggaaaa tccttttttg aggatctgcc attgaatcag aaggaaactt tgtgcaaccg 300  
acaattgtgg aaattacacc ttctgcacca gttgtgaaag aagaactctt tggtcctgtc 360  
ctttatgtta tgaaatttca gaccttgaag gaagcaattg aaatcaataa ctctgttcct 420  
caaggattga gcagttctat atttacaag aggccagata ttatTTTT 468

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<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D1

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gcctgggtacc cgggcgtcgc gtccggcgcg gatgcgggtg gcaccagggc cgacaaggtg 240  
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ccgacggacc ccgtggactt caagccggaa agcaaggtga cgcgcatccg gcagccggtg 360  
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ctaccggaag agaaccgct gagct 445

<210> 45313  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D10

<400> 45313

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ctcacagtcc aaaacttggtg cagccacaac ttgactctga cgctgaaacc cctttccaac 240  
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gtgc 304

<210> 45314  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D11

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<210> 45315  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D12

<400> 45315

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cgagctgcag caggccatgg agctccagag ccgtcgcctg atgaggctgc agctgctgga  180
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gacgaggtcc gcggccttgg ctgcgcaccc tttcgcggcc atcgaccggg agatggctgc  420
ctcgcccggg cgtcgaaacg gcgcc                                     445
  
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 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D2

<400> 45316

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atcattgctg tgagtacatg actggtggct gcgtagtcgt acttgcaaaa gctgggagga  300
atgttgcagc tggaatgact ggtggtcttg cctacattct agatgaggat gatacacttg  360
tcccaaaggc caacaaggaa atcgtcaaaa tgcagagagt gaatgctcca gctgggcaga  420
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<210> 45317

<211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D3

<400> 45317

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gccacctaac gccatgccaa tggtagctcg tctagtcgag aatgggtcaa ccgtatacag 420
ctcacaggac actcacgact cttctcagaa ttc 453

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<210> 45318  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D4

<400> 45318

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tatccctatt cactattctg ctgatgacta acctactagc attatcaagg aaatgcttgt 180
atcaagagat ggcattggga cccaactctg tatcatcagc agagtacaga gtcccgaaaa 240
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ctcaaattga ttagcaccaa tgaacgttga accatcgact gtaagctcaa atgtactcac 360
gccacctaac gccatgccaa tggtagctcg tctagtcgag aatgggttaa ccgtatacag 420
ctcacaggac actcacgact cttctcataa ttc 453

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<210> 45319  
 <211> 457  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D5

<400> 45319

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ggaccggaca ttggttatcc agtactctct aaagattgaa caagatattg aatgcggtgg 180  
tgcttacatc aaacttatgt ctggttatct caaccagaag aaatttggtg gcgacactcc 240  
ttacagcttc atgtttgggc ctgatatatg tggggatcag aaaaagaagc tgcattctcat 300  
actttcatat caagggcaaa actaccgtat caagaaagaa ctaaaatgtg aaacagacaa 360  
attgacacat ttttacacat ttattcttag acctgatgcc atttatagca ttcttattga 420  
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<210> 45320

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D6

<400> 45320

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caagtctgac gatgtctacc tcaagctcct cgtcaagctc taccgtttct tggtcaggag 180  
gaccaagagc aatttcaacg ctgtcattct caagaggctt ttcatgagta aaaccaaccg 240  
accaccaatc tccatgcgcc gccttggtcaa gtttatggaa ggaaaggaga agaacattgc 300  
tgtcattggt ggcacagtca cagatgacaa aaggatccag gaggttccag caatgaaggt 360  
tactgccttg aggttcacgg agacagcatg ggccaggatt gtcaatgctg gtggcgagtg 420  
cctcacattt gaccagcttg ctcttcgtgc 450

<210> 45321

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-D7

<400> 45321

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atacagcctt ggcaccaaac cggcatcatg agcaagcagg agcatgtatc atatatctct 180  
gttaacatat tgattttttac agcaaatcaa ctaacatctc ttccctagat cggttgaatc 240  
cagcaccagc cacacaagga gaacatgaac tggaagaaat ataaaagaaa atcgcacctc 300  
tgttcagtat caaatacacc ggcggaagcg ccgtcacacc ggccaccatc ccctccacag 360  
tttccatcca actcaacaca tggatatctag ggacgtacga ataatcgggtg atctcctgtg 420  
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<210> 45322

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-C1

<400> 45322

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cctcgtcgca actcccgtcc gccgccaata atggagaccc gggacacggc tgcgacgccg 180  
ctcccctact cgtacacgcc gctgccggcc gtcgacgccg cgtcggccga ggtctccggc 240  
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gcgctgctcc tagccgtggc cgcgctcgcc ggcgtcggcg tcggcgtctg cagccggccc 360  
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<210> 45323

<211> 474

<212> DNA

<213> Zea mays

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<400> 45323

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 tatgcgggca accaggaaag gatacagcta gagactgctc gggtatacag gcaagctggt 180  
 gtcaaccctt tagcaggatg tttccaaca ttggcaacaa tacctgtatg gattggtctt 240  
 taccaggcac tttcaaatgt agcaaatgag gggctattga cagaaggatt tttctggatt 300  
 ccatcactgg gtggctctac aacaattgca gctcggcaaa gtggtgctgg aatttcgtgg 360  
 ctcttcccat ttgtggatgg ccatcctccg ctaggctggg atgacacgat atgtacctt 420  
 gtattgctg tgctacttgt tgcttctcaa tatgtctcta ttgagatcat gaaa 474

<210> 45324  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A6

<400> 45324

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 gatcttgaat acattccagc tactttcagc taatccagtt gtctatttgg tgaatatgag 180  
 tgagaaggat ttccagagaa aaaagaacaa gtttctaccc aagatacatg cttgggtgca 240  
 ggaacatggt ggtgaaacca tacttccttt catctgtgct tttgaacaga aactagtggg 300  
 tatgccagaa gatgaagccg ccaaattattg tgctgaaaac cagataacaa gcatgatccc 360  
 aaaaattatc aagactgggt ttgcagcaat tcacttgata tactttttca ctgctggtcc 420  
 tgatga 426

<210> 45325  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A7

<400> 45325

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gacctgttaa ggatacaatg agtggtgaat tggctgagca acaaattttg cttctcgcaa 180  
ggcaacaagc acaacgagaa gaggaattgg ctcagtcaca gaggcataatc ttagcacttc 240  
aacaagaaat tgaagagctc gagcgtgaaa atcgtctcca tgatcaacag gaagcaatgt 300  
tgaaaaccga gcttcgcaat atggagagat cacaaaagcg agaaggaata gatatgacat 360  
atctcaaaaa tgtgattcta aaacttcttg aaac 394

<210> 45326  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A8

<400> 45326

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gacctgttaa ggatacaatg agtggtgaat tggctgagca acaaattttg cttctcgcaa 180  
ggcaacaagc acaacgagaa gaggaattgg ctcagtcaca gaggcataatc ttagcacttc 240  
aacaagaaat tgaagagctc gagcgtgaaa atcgtctcca tgatcaacag gaagcaatgt 300  
tgaaaaccga gcttcgcaat atggagagat cacaaaagcg agaaggaata gatatgacat 360  
atctcaaaaa tgtgattcta aaacttcttg aaacagggga agtgggagcg ttgttgccctg 420  
tggttgggac gttactacag ttt 443

<210> 45327  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A9

<400> 45327

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actgaaagta tccatgccgt aatccaacga aatcaactag gagaggataa cgatgaaatc 180

agctggtatc atcccaacaa cggtagatct gaccgcatct acctacctgg aagtcaatgt 240  
gaacggcgac agcgactccg gctgctactg cagatttagc cagaccgacg aggtcattat 300  
ccccgaagcc aaccatgagc tgagcaagca tgtaacctg gatgatgccc ctgctgctgc 360  
tgctgtctca gcacatgcgt cggttctgcc acct 394

<210> 45328  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-033-Q1-K1-B1

<400> 45328

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tcagctggac aaagcaaact tgctgctaaa gtggcgaaaa agttcaagga gaagagctat 180  
ggtagcagtg gtgcaacatc aggattgaca tccagtttgg catttacacc agttcagggg 240  
atagagtgtg caaatccaca ggtccaagga aaccttctcg gaggcggaac tcaaagtact 300  
tacttttccg agaccggcac attttcaaag atcaggagga cgcaatagaa tcctctttgc 360  
aaccatcaca tctcatttgc actgcatttg ttgatantcc tgggatgcac ttagaaaaat 420  
tcaaaagtca atcttgcaat g 441

<210> 45329  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B10

<400> 45329

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cataaaagt tgcagctatga tggattcaaa gtctacagtt gctagagggc cggttgcatg 180  
ctcaaaccct aaaacttttg ttgctagagg tccagtagct tgctcaaatt cgattgcaag 240  
aagacactga cagatgcatt atcctccaaa gtaaaaaatca aattttccgt ggcagctct 300

gcgcatacct cttccaaaga tatactcggt caagcagctg gtagcaaaga ggggtcctta 360  
aatcactctg tccctactgg caacaaagag gcatcttcaa attgtactat tcctatcgct 420  
aaggaggcta aaatatcaag ggcacgaga 449

<210> 45330  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B2

<400> 45330

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tcagctggac aaagcaaact tgctgctaaa gtggcgaaaa agttcaagga gaagagctat 180  
ggtagcagtg gtgcaacatc aggattgaca tccagtttgg catttacacc agttcagggg 240  
atagagttgt caaatccaca ggtccaagga aaccttctcg gaggcggaac tcaaagtact 300  
tacttttccg agaccggcac attttcaaag atcaggatga cgcaatagaa tcctctttgc 360  
aaccatcaca tctcatttgc actgcatttg ttgatatcct tgggatgcac tgtaaaaaat 420  
tcaaaagtca atc 433

<210> 45331  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B3

<400> 45331

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tcagctggac aaagcaaact tgctgctaaa gtggcgaaaa agttcaagga gaagagctat 180  
ggtagcagtg gtgcaacatc aggattgaca tccagtttgg catttacacc agttcagggg 240  
atagagttgt caaatccaca ggtccaagga aaccttctcg gaggtgaac tcaaagtact 300  
tacttttccg agaccggcac attttcaaag atcaggagga cgcaatagaa tcctctttgc 360

aaccatcaca tctcatttgc actgcatttg ttgatatcct tgggatgcac tgtaaaaaat 420  
tcaaaagtc 429

<210> 45332  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B4

<400> 45332

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tccaagcggg atgggggtact tgagctccgt gatcggccac cccaccgatg gatcctccgt 180  
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taaaagggca tccatggaag acttctatga gacaaaaatt gattgtgttg atggtcagat 300  
agttgggtctt tttggagttt ttgatggcca tgggtgtgct aaggtagcag agtatgttaa 360  
agaaaacctg ttcaacaatc ttgttagtca tccaaagttc atcagtata ctaaagtcgc 420  
tatagatgat gcttataaaa gcaccgacag tgaattctta gaatctg 467

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<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B6

<400> 45333

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tttcagttgg agaaaatatt taagacaaca ttttcatcgt ttgttctcca tatggggctt 180  
gtttcacgcc acttgaagga aggagggaaat gatgggtgta agttcggaca atacatctac 240  
acatctatga aatgtacaac cacgatgtag agcatagagt ttctaaagtt gggtaaagctg 300  
tttggctgtt ttatagaaat ttgtatcaac atcaacatag attttttagtc ccaaacaat 360  
tggggtaggc tagatttgaa acccaacaag aagtcaccaa aaagagaaag agagataaag 420

gggaggggaa aagcttttga gagaactaaa agagaaaatg 460

<210> 45334  
<211> 466  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B7

<400> 45334

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tttcagttgg agaaaatatt taagacaaca ttttcatcgt ttgttctcca tatggggctt 180  
gtttcacgcc acttgaagga aggaggggaat gatggtgtta agttcggaca atacatctac 240  
acatctatga aatgtacaac cacgatgtag agcatagagt ttctaaagtt gggtaagctg 300  
tttggctgtt ttatagaaat ttgtatcaac atcaacatag attttttagtc ccaaacaaat 360  
tggggtaggc tagatttgaa acccaacaag aagtcaccaa aaagagaaaag agagataaag 420  
gggaggggaa aagcttttga gagaactaaa agagaaaatg cctaatt 466

<210> 45335  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-B8

<400> 45335

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aggagttagc ggggtccggca atatctctc cccgttctcc tcgtcgcgag ggggatcgtc 180  
tcagctgcac atggacagtg ctgccagcta ctctacgcga gctcttggtg gtggaactgc 240  
aaaggatctc aggtacaacg ttacggaat aagatctctg gcggacgagc acaaccagct 300  
gatcgcagaa gccatcgact cgtcgataga gagccagtgg cgctcctcca gctcgtcgtt 360  
cccgtctctg agctaccac agctcggggc gctggggcgac ctgtgcggcc agaacagcac 420  
ggtgagctcg ctgccgaaga tggaaaggca gcagccaccc tcg 463



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 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-033-Q1-K1-B9

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 ctaaccactg tgccaagagc accagaaaca gatcgatttc gcaaaatatt aaaaaaaga 180  
 cggccggaaa cagaaagcgc aactcacccg atccaaatcg gcgtgtacgt atgtacgcag 240  
 tagatcagtg ggagagatcg ttaataatth ccccatthgt agcggcgga gaggtcttgt 300  
 gtcgcacga aaccttcagg ctaaagtctt agttgaaact gttcccgta ttcttaagct 360  
 atctatgtat ntgaagattc cccggcatgc ttctgactat gaactgcaat aatttgaatg 420  
 caagaggatt gtttg 435

<210> 45337  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A3

<400> 45337

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 aggaaaaacg acagcgatct tgatcagtat ggctgtctca agacctataa cagagctgca 180  
 gttgcgttca acgcagcgt gggcagcctc tgcgacgagc tgagtgcgca gatgaaagac 240  
 gcgacgcttg tgtacacgga cctgttcccc atcaagtatg gtcttgtcgc caaccacact 300  
 aaatatggtt ttgacaagcc gctgatgaca tgctgtgggt accgaaggcc ttctacaac 360  
 tacgacttca gcaagggttg ccagtctaag gatgtgg 397

<210> 45338

<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G7

<400> 45338

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ccgacctcga tatcttcgga gcccgccgtt gggggcctac tgcattgctca aatcgtagac 180  
actgggtcgg ggcgtggttag agatccgtcc gggctcggat cgatttcttc gttcgttggg 240  
gagtagccta ggcaagctgg gcgggggttg ttaggagctc gctttggtct aggaaaccac 300  
ctattttctg agtgagaaca attacatcca aatgaactct ctccattcag ccgggagcca 360  
tttgcttget tggcacccta ttctagtac tctagtccat ccacgcgtgg ttcagttagg 420  
ttcttcagcg cgcaagatcg acctacact 449

<210> 45339  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G8

<400> 45339

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aagccggcgg aggagaaggc cgagaagaag ccaaggcggc agaagcgcgt gccgagcaag 180  
gagggcggcg agaagaaggg aaagaagaag gcgaagaaga gcgtcgagac gtacaagatc 240  
tacatcttca aggtgctcaa gcaggtgcac ccggacattg gcattctctc caaggccatg 300  
tccatcatga actccttcat caacgacatc ttcgagaagc tcg 343

<210> 45340  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G9

<400> 45340

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ctggaatatg catgcgtgaa aattctctct atgtacacac attgcgtaac tttcgtgata 180  
gaagatatga atacaaatgt cttacaaaaa catggaaagg aaaactcgca taatctaata 240  
ccaatggaaa ttctatgaaa attcatgaag cgcatgatat ggttggttcta tatgattctt 300  
tgcaacttgc tcacaattgc atattgaatt ctttttatgg ata 343

<210> 45341

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-H1

<400> 45341

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tccccacact tccccctctc cccctacctc tatacttctt gatccctcca ttttttctct 180  
acttcattct caaatcttat acactcttct ttatcttttt acaaatcctt cctttctcta 240  
atcgatttct tcattctctt tttaatatcc tattctaact tatctttatt tttt 294

<210> 45342

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-H10

<400> 45342

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gacattgacc gtattatagc taaaggagag gagacaacag ctgaacttga tgcaaaaatg 180  
aaaaagttca cagaggacgc cattaaattt aagatggatg ataatgccga actgtatgat 240  
tttgatgatg agaaggatga aaacaagggt gatttcaaga aacttggttag tgataactgg 300

atcgagccac ctagaagaga aaggaagaga aactactctg agtctgatta ctttaagcaa 360  
gcgcttcgcc aaggtgcacc agcgaagcct taggagc 397

<210> 45343  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-H11

<400> 45343

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atgggtgcggt ttgggtgctga aatgggttttc agttctaagg acagcacaat aactgatgag 120  
gacattgacc gtattatagc taaaggagag gagacaacag ctgaacttga tgcaaaaatg 180  
aaaaagttca cagaggacgc cattaaattt aagatggatg ataatgccga actgtatgat 240  
tttgatgatg agaaggatga aaacaagggt gatttcaaga aacttgtttag tgataactgg 300  
atcgagccac ctagaagaga aaggaagaga aactactctg agtctgatta ctttaagcaa 360  
gcgctttgcc aaggtgcacc atccaagcct aaggagccaa tgatttcaag aaa 413

<210> 45344  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-H12

<400> 45344

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ggacattgac cgtattatag ctaaaggaga ggagacaaca gctgaacttg atgcaaaaat 180  
gaaaaagttc acagaggacg ccattaaatt taagatggat gataatgccg aactgtatga 240  
ttttgatgat gagaaggatg aaaacaagggt tgatttcaag aaacttgta gtgataactg 300  
gatcgagcca cctagaagag aaaggaagag aaactactct gagtctgatt actttaagca 360  
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<210> 45345

<211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gccgaggaag aagtcggtga cgagggtccgt gaaggccggg ctccagttcc cgcgcggccg 180  
 catcggggcg tacctcaaga agggccgcta cgcgcagcgc gtcggcagcg gtgcccccg 240  
 ctacctcgcg gccgtcctgg agtacctcgc cgctgaggtc ctggagctcg ccggcaacgc 300  
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<210> 45346  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-H4  
  
 <400> 45346  
  
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 acaaggcaat caaaattaac aagccagacc agggttccga ggcaccagct gccagcgat 180  
 ctgcttgctg cggctcataa gcagatgcac gatggccata gcctttggtt atttgacatt 240  
 atttatttcc cgcttggtg ttataggaag gatttgaaga aaccacttat gatataccga 300  
 tgt 303

<210> 45347  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-H6  
  
 <400> 45347

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tagtagtgat ccgcaatgtc gacggaggag gctgttgtgg ctgaggtccc ggtgaccgaa 120  
gtgccagcgg aggtcccggc ggcccaggtg gccgaggcgc ccaaggcgaa gaaggcgccc 180  
aaggagaaga aggcgcctaa ggagaagaag ctttccgcgg cgaagaagcc ggcgggcgac 240  
cctccctacg ctgagatgat tgtagaggcg atcgctgccc tcaaggagaa ggaggggtcg 300  
agctcggtagg ccatcatcaa gtacgtcgag gggaaacatt gcggcaagct 350

<210> 45348  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-H7

<400> 45348  
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gacatgaagg tgtccgaggt ggccgcgctc ttcgccgtcg acccggcggc gttgctggcc 180  
gccaacgcgc tcgacttcgg cgccccaggg gcggcgcacc gcactcctgcc catgggcctc 240  
ttcgtgcgcg tgcccacccg ctgttcctgc gccgacggcg tccgcaagtc cgtctccgta 300  
cgctacgccg cgcgcccggg cgacacgctc gccaccgtct tcgacgtccg cttcgcaggg 360  
ctccgcttct tcgaccagat ccgcaacgag aacggcctta ccttcaacga ccctgacgcg 420  
ccgctggacg ccg 433

<210> 45349  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A1

<400> 45349  
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agctacaaaa ccatcatcca gaagaaggcc atggcaagat tcaaggagat gtcctagcta 180

gacctttttt ttttgtatat tcggttgctg tattttgtcg tccgtatact ttttttttta 240  
 caatctgtgc actgttttgc ttgtgttttt tttcttcaca aacctagcca ctgaattgtg 300  
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<210> 45350

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 45350

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 acgcgccac cactacgacg gacctctcct ccgacgagag ccgcgcgcgc ctctcaata 180  
 ggttggtgta ccggagcaag cagcgagggt ttctggaact ggacctggtg ctggggacct 240  
 gggtcgagca gcacgtgcac gccatggacg aggccaacat ccgcgccttc ctgcaagtgc 300  
 tcgacctcga aaaccagat ttgtggaaat ggttgactag ccaggagcag ccaccagagg 360  
 atctgaattc taatccggtg tttgctgcca tcaaatcaaa ggtcacagat aacctgacca 420  
 agcatgcttc tcctgagacc cgatctacac caggtaacc atgg 464

<210> 45351

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-033-Q1-K1-A12

<400> 45351

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 cgccgccggc cgctgcatta atggacggcc gctacctcct atgcccaccg cctcttggtc 180  
 cccctgttc cagcacaatc ttggaatctc gtgggggtcc gcttctgtcg gggctccctt 240  
 ccggagcctg tcgaaccagt caagcggcgg cggcgcgctg tggagctgcg gtgcgacggg 300

cgcggttcctc tcctgcgggt cctgcgggag cgtgcagcct gtcgaccccg ccgtcgacta 360  
 cttccaaata tttggcctaa aaagagagta taatataacg gataataact tggaagggaa 420  
 gtacaaggac tggcagaaga agtta 445

<210> 45352  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-033-Q1-K1-A2  
 <400> 45352

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 cagtgcctta ctaggaagtc agcggcggaa ggctgatcca atcctggagg ccaaagccgg 120  
 agacagctac aaaaccatca tccataagaa ggccatggca agattcaagg agatgtccta 180  
 gctagacctt ttttttttgt atattcgggt gtcgtatttt gtcgtccgta tacttttttt 240  
 ttacaaatct gtgcactggt ttgcttgtgt tatttttctt cacaaaccta gccactgaat 300  
 tgtgatttat tatcctcaaa ggggcaccgt gtttatctta ttattactat gtagttcgag 360  
 accaaaaaaa aataattaat tttttattta t 391

<210> 45353  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 45353

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 tacggcatcc ttcaagtgcc tcacctacgt ttagcagcgg gagcccttcc acacactggg 120  
 acaatgcatg cctccaaca ggtgttcttc aaccttctcc tagaatgcga gatgtcccaa 180  
 aactatcgcc cctagttgcc caccgagtac atgccgatcc cctatctggt atggtgttca 240  
 ccagtgaatc tatcctcacc atctgccgcg agggcctcat caaaatctgg gttcgaccag 300  
 agcagagcga aaacaatcag caatcgaatt cttcagaatt tgctttaggc cctgcttcga 360  
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tgntcttgtc acatgatgaa tcaacgggat

450

<210> 45354  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-E9

<400> 45354

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atgtcaaatt gacctacgtg ccatcccatg atccttcgca ccaggtatct cgaagctccc 180  
aaggctaaca ttgctcccaa ggataagaag gcgcataacc agactaaact tttcatgact 240  
accaagccgt cgatataacc ttcatacgtc gagatgaatg tacaggcaat cgttga 296

<210> 45355  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-F1

<400> 45355

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ggccactccc cccgcaggag cggcgcggcg gcggcaaagg caaaggcaaa ggcaagatgt 120  
tcgggcgcgc gccgaagaag agcgacaaca ccaagtacta tgagatcctc ggggtgcccc 180  
agtcggcgtc ccaggacgac ctcaagaagg cctaccgcaa ggccgctatc aagaaccacc 240  
ccgacaaggg cggtgacccc gagaagttca aggagctcgc acaagcctat gaggttttga 300  
gtgatccaga gaaacgtgag atttatgac agtatggtga agatgccctt aaggaaggaa 360  
tgggtggtgg tggatcccat gctgatccat ttgacatttt ctcatcattc tttggaccct 420  
cttttgaggg aagtgggtga a 441

<210> 45356  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-F11

<400> 45356

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tcccgtcgcc tcgccccccg cgctccgtct gccgcccctc tccggagaaa tgtctgagca 180  
tctctttgag gacaccttcg tcgtcactag actcgaccct gatggcaaaa agtttgatag 240  
agtttctcgt gttgaagctc gcagtgcgca gttagatatg tatatgcagc tagatgttgc 300  
cacagatgtt tatcctatgc atgcttgtga gataattaac atggttatag cgccactct 360  
gaatttggat ggcaccccag atactggcta ctatac 396

<210> 45357

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-F2

<400> 45357

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ccccactgcc cccgcaggag cggcgcgggc gcggaagg caaaggcaaa ggcaagatgt 120  
tcgggcgcgc gccgaagaag agcgacaaca ccaagtacta tgagatcctc ggggtgcccc 180  
agtcggcgctc ccaggacgac ctcaagaagg cctaccgcaa ggccgctatc aagaaccacc 240  
ccgacaaggg cggtgacccc gagaagttca aggagctcgc acaagcctat gaagttttga 300  
gtgatccaga gaaacgtgag atttatgatc agtatgggtga agatgccctt aatggaagga 360  
tgggtggtgg tggaatccca tcctgatcca ttgacatatt ctattattct ttggaacctc 420  
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<210> 45358

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-F3

<400> 45358

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gagttggaaa agtacatggc agatccactt ttgcgtcttg gtggtccatt tgatggccca 180
tttgatattt tagcgtggtg gaagagcaag aggggaagtgt atcctattct ttcacaaatt 240
gttcgagatg tgatggccat acaagtatca acggttgcat ctgaatctgt ttttaattgct 300
gctggccgtt ttgttgatcc ttatcgtaat cgtcttgagc cggagatggt agaggcattg 360
atatgcacca aagattggat agctgcagaa agaaaagatt ctaagattgt tggttcaatt 420
gtgagtgacc ttgaaattga gactttatct accgtcatg 459

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<210>      45359
<211>      337
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3076-032-Q1-K1-F4

<400>      45359

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gagttggaaa agtacatggg agatccactt ttgcgtcttg gtggtccatt tgatggccca 180
tttgatattt tagcgtggtg gaagagcaag aggggaagtgt atcctattct ttcacaaatt 240
gttcgagatg tgatggccat acaagtatca acggttgcat ctgaatctgt agttaattgct 300
gctggccagt tatgtgatcc ttatcgtaat cgtcttg 337

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<210>      45360
<211>      217
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3076-032-Q1-K1-F5

<400>      45360

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tcatatattt taatggcccg tgtagggtgt taactgcaca aggggctgta tggtaaaaat 120
taaccacttc taattcggtc caattagttg gcaaactoca tggcaaatcc ccttttgagt 180

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atttgtggac catttgatgg cccatttgat attttaa

217

<210> 45361

<211> 387

<212> DNA

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<223> Clone ID: LIB3076-032-Q1-K1-F8

<400> 45361

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gatctggcct ctctcgagtt aatcctagat caatatgaga aggggctaca gttacagtcc 120

ttcaccacca aggggctaca ggagaagggc ccgcagtcca agtcctcatg atcattatgg 180

tggtcgtggt agggatctcc caaccagtct tctggtcagg aatctccgtc gggactgcag 240

gccagaagac ctccgtcgcc catttggaca gtttggtcga gttaaagata tatatcttcc 300

aagagattat tacactgggg atccccgagg gtttgggttt gtccagtatt atgatcctgc 360

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<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-F9

<400> 45362

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gcccggttac atcgaggagc gcggcaagca cgccttcgac ctaaccactg gtgactactc 120

cgcccatctc gccgtttgcc ggctccggtg gtcgcttcag aaggaaatca tcggccgacg 180

catactagag ggcgacccca ccatggacga ccagccaccc tactgccttc aacgtgtgaa 240

ctgaccgcac cctcagactt gcttttgctc cttgacaagc attatctact gtagacattt 300

aggaccggag aagacatcac gaggagaacg gagattatct agtcacggat cgtcttacct 360

gtactgtgat atattatatt gtacatatat c 391

<210> 45363

<211> 429

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-G1  
  
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 ctgtcagcgt ccatcgatgg caagattttg atctggagct actggcacta ctaccgcgca 240  
 cgtagaggta gacgtagtac ctggcatttg gaaaaaacat ttgacgcggg aagccagtgt 300  
 ctgaagcaag tcgcgtttat tgctccaagt gtccatcgca gcagcagcac tatcatcggt 360  
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 ctcacattg 429

<210> 45364  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cccagccgc tgctccactc ggccgccagg gagcatcacg cttgtttctt tctctgattc 180  
 tttgtctgag cagccgctag agcacagagc tactggccga acgtgcccga gtacggccgt 240  
 tcttgccgct tgcatgctcc tatctctctc tttttttttt ctttctttca ctgtttactg 300  
 attttgagga ttactaacgc acggttggct tcaatgcacc ggagatggcc ggcctgagcc 360  
 gnctcgcatc cccatccgcg cgacgtgcgc gtcccttcgg gtggg 405

<210> 45365  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G12

<400> 45365

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ccccagccgc tgctccactc ggccgccagg gagcatcacg cttgtttctt tctctgattc 180  
tttgtctgag cagccgctag agcacagagc tactggccga acgtgcccga gtacggccgt 240  
tcctgcgcgt tgcattgtcc tatctctctc tttttttttt ctttctttca ctgtttactg 300  
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<210> 45366

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G2

<400> 45366

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tgtgaacacc cgaaatctat cacgtctttg gctgttgacg atgatgccct tgagctggtg 180  
ctgtcagcgt ccatcgatgg caagattttg atctggagct actggcacta ctaccgcgca 240  
cgtataggta gacgtagtac ctggcatttg gaaaaaacat ttgacgcggg aagccagtgt 300  
ctgaagcaag tcgcgtttat tgctccaagt gtccatcgca acagcagcac tatcatcgct 360  
actgctcgag a 371

<210> 45367

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G3

<400> 45367

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gtgaacaccc gaaatctatc acgtcttttg ctgttgacga tgatgccctt tagctgatgc 180  
 tgtcagcgtc catcgatggc aagattttga tctggagcta ctggcaactac taccgcgcac 240  
 gtagatgtat acgtattacc tggcatttgg aaaaaacatt ttactccgta agccagtgtc 300  
 tgaatcaagt ctcgttttatt gctccaagtg tccatcgcat cagcagcaact atcattttcta 360  
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<210> 45368  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-G4

<400> 45368

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 acctgaatgc agcgggtgcg agttaggggg gttgcagtgg atgtgatttg agccagaggg 180  
 tttctgtttg tgcattgttt ttttgtgtgt ctatccatgc tggataatag caccatcaat 240  
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<210> 45369  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-E8

<400> 45369

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 ggcgccgctg atcgacgcgg ctgagctggg gtcttggtcg ctgtaccgcg ccgtgatcgc 180  
 cgagttcatc gccacgctgc tgttctctgta catcacggtg gccaccgtga tcgggtacaa 240  
 gcaccagacg gacgcgtctg cgtcgggtgc cgacgcggcg tgcggcgggc tgggggtgct 300  
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382

<210> 45370

<211> 302

<212> DNA

<213> Zea mays

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<400> 45370

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agctcgagga gcagaagacc gaggcagaag aggttggtgt ggaggaggat gacgaggatg 180  
atgaggatga cgatgatgat gacaaggatg atgatgaact ggatggacaa gaaggggatg 240  
ggagtggcaa gtcgaagcaa agcaggagtg agaagaagag ccgcaaggcc atgctgaagc 300  
tt 302

<210> 45371

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C3

<400> 45371

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gccggcgacg agcaccgcgt aggtaccatt ggccatgtgg ctcatggaaa gtctactgtt 120  
gtgaaggcta tatccggagt tcagactgtt cggttcaaga atgagctgga acgtaacatt 180  
actataaagc tgggctatgc taatgcaaaa atctacaaat gtgaggatga cagatgtcca 240  
cgaccaatgt gctacaaggc ctatggaagc ggaaaagaag atagccctct atgtgatgtg 300  
cctggatttg aaaacactag aatgaagctc ctgagacatg tttcttttgt tgattggccc 360  
ggacacgaca ttctcatggc tacaatgctt aatggagctg ctatcatgga 410

<210> 45372

<211> 428

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3076-032-Q1-K1-C4

<400> 45372

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gtgtacctcg gccggcagat ctgcaacgtg gtggcgtgcg agggcgcgga gcgcacggag 180  
cgccacgaga cgctgggcca gtggcgcagc cgctcggcg gctccgggtt cgcgcccgtg 240  
cacctgggct ccaatgccta caagcaggcg agcacgtgc tggcgtcttt cgccggcggc 300  
gacgggtaca ggggtggagga gaaggacggg tgcctgacct tggggtgga tacgcgcccg 360  
ctcatcgnca cctcggcgtg gcgcgtcggc gncggcggcg gttcctgatc agggaggggt 420  
ggttgggg 428

<210> 45373  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C6

<400> 45373

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ctgtttgtgt ggcgtcgcat gcgcttctgg gatcatctct ttatatgtat gctgatgtta 180  
acgctccttc aaccgtggaa aacaaactgc atggaaagct ttcttcacct gaaatcaagt 240  
gtagtcaccc caagatacat tggatggag tctgttctca accttgcaac ataccgtgca 300  
tctcatgtgg ttggtgatgg gagcactatt aatcatt 337

<210> 45374  
<211> 265  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C7

<400> 45374

tgcaacaccc agcacctgat gaatgccgtt ttctcgtccc cggagctcac agagcgcgtg 60

aggatgatcg acatgcacac taatatcgcg acagcgatgc ttgggcacat caaggagaga 120  
 tcgctggatg gatactgtga ctgcgggaac agacatgctc acgaaggga ccgaggacag 180  
 gagcacgcta ctgggccttc tacgagggaa gggcacctag gccgacaagc ttcgtatggc 240  
 tgtgacctac ctactatgtt tcgag 265

<210> 45375  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C8

<400> 45375

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 tgccgtggaa gctgctcctg ctgtttttga ctttaaccaa ggtggcaacc cttctgggtgc 120  
 tgggtggtctg aacttcaact gatacagtct ttgatcgaaa ggggtgtaat tccctcagtgc 180  
 atgggcttgg cattggcttg tcgtgacaaa tgtagtctgg tcgactccac gtgggatata 240  
 atggtttgtg gtgagtccea taaactcaag atttctaagg gagatgggct gagcattatt 300  
 tccaagtga ccatgggtat caatattaat attgtagggc ctgtaacatg attatattat 360  
 ccttgaacat taaaacgtgg gtttttgaga acactactct taggtgtgcg tcctttaatt 420  
 atttt 425

<210> 45376  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-032-Q1-K1-D1

<400> 45376

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 ggagaagctt ctccttccgg cgaagcgtca gcccaaagga ctcgtccatg gacaccctg 180  
 ctgcagagcc cggaacctnc caatcaaaat ggtacatgag attggccagc atgatctcca 240

tggtcgcgaa tccgaagttc atccccggggc agatcctccg gccggagccg aacgggatga 300  
acctgaggtc cttgcccttc atgtgga 327

<210> 45377  
<211> 166  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-032-Q1-K1-D10  
  
<400> 45377

actcgtcctc ttcatcaaatt tagcattttt catgctttat ttcattcttag gctttgttca 60  
aatttacatt ggatatgggtt atatataatc taccactgat tccttactat ccatactctg 120  
ctcatctatg cttgtttttat ttattttttat tacttgtatt ttatca 166

<210> 45378  
<211> 386  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-032-Q1-K1-D11  
  
<400> 45378

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tcctgaaatg ctctcctctg tcatgcctta ttgctttgca gtgtttatta gtacttgtgt 180  
ggtttccatc tgttacgtgt ttgtgtttta gtatcaccag ccttaagtgc taatgattac 240  
ccattagttg atatgatttc catgccggtg ctgtatatac ttttatctct tcggtcttag 300  
cttcatgggt gtgaaattac gtttgcaggg cactcaaaga agagaaaatt gctgctcgta 360  
gtgctatact gccgatgctc caagct 386

<210> 45379  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-032-Q1-K1-D12  
  
<400> 45379

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 gacgtgggtga cattggaaat ggtgtgataa agctaccact gaggccttac tatccatttc 120  
 gtgctcatct atgctgttgt tatttatttt tattacttgg atggtagcat gctgctgctg 180  
 ttgctgatt ctgcggtacc tatgtggcta tgtgattagc atgcatact gtttcttggt 240  
 gcttactgtt ccttattcct cccttggctt actgagacta tgttcaacgg tgcacccttg 300  
 gctccccctc ccctaact gtagccgatt taggggctac agtgtgcccc tatccccctc 360  
 accgattcc tctccttct cctctcccct ccgattcct tctct 405

<210> 45380  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-D2

<400> 45380  
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 agaaaattaa cagaggaaca ccgagcagct aatgaaatac gtcaaaaggc ctacagcgat 120  
 tggactgagc ttagatcaga gccagcaag aagaatgaat actttttcaa gtacagggac 180  
 gccgaaatg cagcagaaac tttcagagcc aatggagata taaatggact tatatcacac 240  
 tgtaatagtc agattgagag agttatggaa atatggaaca aaaacgagga cttccgcaag 300  
 cagtatgttg aatcgaaca ggtagcaca ctaaagagat tagggactca tgacggacga 360  
 aaacttggcc ctggtgagga t 381

<210> 45381  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-D3

<400> 45381  
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 cggctagcaa gacacaagca ttacacatgt aagattatca ggaagcaatc cttggaacat 120  
 ggacaagctt ctcttccgg cgaagcgtga acccagagga ctcgttcatg gacacccatg 180

ctgcagagcc cggaacctct caatcaaaat ggtacatgat attgggcacc atgatctaca 240  
 tggtcgcgaa tactaagatc attccggggc atatcctccg gccggagccc tacgggatga 300  
 acc 303

<210> 45382  
 <211> 121  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-D4

<400> 45382

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 gagctattgg cacacgaaca cggcacatgt aatgaaatac ggaaacaagc ctacggcaca 120  
 t 121

<210> 45383  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-D6

<400> 45383

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 tgtgtgcact tccccaccga cttgggggtc tagtccttct agacgccgtc gtctcttctc 120  
 actgctttcg tcgcatacct catctgcgcg tctaactacc tgctgtccaa ttacggcctc 180  
 cctaaagggc tcattcctga ctctgtcacc tcctacaga 219

<210> 45384  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-E1

<400> 45384

gttactaact tactattggt cacattaatg tgcattatgt tgacttctaa attgcccagg 60  
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atcaacatta atcttagaac agttcagata gctgcggatg ttaacatcga tgaggttgct 180  
cggaggacag aaggctatag tggagatgac ttgacaaatg tttgccgtga tgcttcgatg 240  
aacggtatgc ggcgcaagat agcaggcaaa acccgcgacg agatcaagaa catgtcaaag 300  
gacgacatag ccaaggaccc agtggccatg tgcgactttg gggaggctct ggtgaaggtc 360  
cagaagagtg tcttgccctgc agacatataa aagcacgaga agtggatggc tgagtttgga 420  
tctgcctggg acctcatctt cttcaacatt ggtttc 456

<210> 45385  
<211> 308  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-032-Q1-K1-E10

<400> 45385  
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accacttacg tcttactctt catttcttgc aaaactaatc cattactatt aattctcatt 180  
acttagattg taacattctc atactgtctt aagattctgc gttacatata tgtctatcca 240  
tattatacat ccttatcact ttattgtcac taaccactat ttattacatc tatcgtctaa 300  
taatacta 308

<210> 45386  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-032-Q1-K1-E2

<400> 45386  
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tctccatgcg gtggctggag aagggaattt aggtccact tccagatttc gaaagcagaa 120  
aggcacttat caacattaat cttagaacag ttcattatgc tgcggatggt aacatcgatg 180  
aggttgctcg gaggacagaa ggctatagtg gatatgactt gtcattatggt tgccgtgtat 240  
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catgtca

307

<210> 45387  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-E3

<400> 45387

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aggagttacc ctatttctgg atgcatcata ggtgatgtga agcgtgttgg ctttccaaca 120  
tttgcttagt gcttctgcat agtgcattga gtagtactaa atttagtttt gtgtggtcta 180  
ggccacacct tatgctttgt acaaacaagc aagctaccat gatttctatt ggtgtgttgc 240  
agctggtcta tgcatacag ttgttgcct tccattgaac gccgttgaat taattatgtc 300  
gatcaaatca aaccctactc atgttctgc tgtggagctc tgccataacg ttgtatgtcc 360  
atgtgatata ttgctttcaa gtccagtttt ggactgtcca atctctatct gtgtcaact 420  
caagccgtgt ggtttcatgt taattgatag cagcaaaaca 460

<210> 45388  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C12

<400> 45388

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aaccgtaccc gtgctcagga cctgtctcat ggcgggctcc ggcggaactca tcttcggcta 120  
cgacattggc atctcatgag gtgtgtctga gatggaggat tttctgaaca agattttccc 180  
cggggtt 186

<210> 45389  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-E4

<400> 45389

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ctgctcatac tgcttgccct cgccgtatcg tccacccgca acgcacagga ggattccatg 180

gccgacaaca ccgggacgtt ggcggggcggc atcaaggacg tgccgggggaa cgagaacgac 240

cttcacctcc aggagctcgc ccgattcgcc gtcgatgagc acaacaagaa ggccaatgct 300

cttctgggggt tcgagaagct tgtgaaggcc aagacacaag tggttgctgg cacgatgtac 360

tatctcacta ttgaagtgaa ggatggccaa gtcaagaagc tcta 404

<210> 45390

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-H7

<400> 45390

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aaaagtctaa cgggatcctc tacatactat tcacgctatc cccacacagt gtactccggg 120

ccctaacgag ggcggcaccg aaagaccccc atcgat 156

<210> 45391

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-H9

<400> 45391

cccacgcgtc cgggctggtc ggcgatgatgc ttgagggcgg cttgaagccc agcctggtga 60

ctttcaattc aatggtgaat gggatgtgca aggctgggaa gatggaggac gcacgcaagg 120

tgttcgatga aatgatgagg gagggtttgg cgccgatgg ggtcagttac aacaccttag 180

tgggtgggta ttgcaaggca ggggtgctgc atgaggcatt gtctgtgttt gcagagatga 240

cacagaaagg gatcatgcca gacgtcgtga catttacgtc attgatccat gtaatgtgca 300

aggctgggaa cttggagcgg gcagtgcacat tggtagggca gatgagggag aggggccttc 360



agatgaatga ggtcactttt acagccttga tagatggggt ctgcaagaaa ggattcttgg 420  
atgatgcatt ggttgcaata agggggga 448

<210> 45392  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-A1

<400> 45392

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tcaacgcaaa gtatcagggc ctcttgattc tagtgatca atgaagatgc gtaccacatc 180  
ttttgcacac aaccagctg tcacaaatct caatgtggga gatgggttact cgattaaggg 240  
cagcattccg accacaataa tctggttggt cgcgttgctc tttttggttg ggtttgtagc 300  
tggtggcttc attctcgctg ctattcataa tcctatcttg cttatagtcg tgggtggtgat 360  
atctggcttt gttgctgcac ttgtgacctg gaacatctgc tggggaacaa gaggtgtgat 420  
tgatttta 428

<210> 45393  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-A3

<400> 45393

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tttatcaatg tgtgtggagg agcgattgag acgactcata agtactctca tacgagtctc 180  
aaaacagaga atcgatactg aaaagaccgg acatcgacta gttattactt cagatgttgg 240  
tcgtcaaatt ttacagatga accagagagc taaggaagaa tgggataaga aacaagcaga 300  
agaagctgac aagaacaaga aacaaactga ggctgatggc agtggtgcta cagaattgga 360  
aaaagaaaaa gaagaaagtc tgccaaagaa cgtaaagccc 400

<210> 45394  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-A4  
  
 <400> 45394  
  
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 tcacggcgcc catcggcagc agcatcgtgg gattctatgc gcgggcggga acaaggctcg 180  
 tcgacgctat cgggtgtttac ttgcgtcaga tttaatttga ataatagcag gggagctact 240  
 gctagctacg tacctgctcc atcctccatt atcctttatt tcaattcgct catcatcgtc 300  
 gtgtgtaaat taaataaata aagctcttgt gcccatatta tatatagttg tcatggtcgt 360  
 gccgtgtcaa aaaaaaaaaa ttttattcta atataatata taaaaaattt ataatgttta 420  
 ct 422

<210> 45395  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-A6  
  
 <400> 45395  
  
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 tacagctgta atttggttgc ggatgatgta tgcaatcgtc taccttgctc agatgaagcc 180  
 attgatcaac ccatttctga gcggagagtg agcgcagcat ctgtattgaa cagaacgaaa 240  
 gctagacctg ctgtaccatt gttcaatccg tgaactttct attcattttg gccccacctg 300  
 atgaaataaa taaattaact ggcctgattt ttttggtgct actcttcacc cgtgattagg 360  
 ggatgcaatt ggatgatata cgcagtaatt acatctaaat atctatgtgg c 411

<210> 45396  
 <211> 342  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B1

<400> 45396

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cccacgcgtc cgcggacgcg tgggaatctg cccttgccgc cgccactgcc cgatccaggt   60
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aagtcgaccg gcggcaaggc gccgcggaag cagctggcca ccaaggcggc gcgcaagtcg   180
gccccggcca cgggcggcgt gaagaagccg caccgcttcc gccccggcac cgtcgcgctc   240
cgcgagatcc gcaagtacca gaagagcacg gagctgctca tcccgaaagt tcccttccag   300
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<210> 45397

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B10

<400> 45397

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ccaaaaatga ccacatgacg aaaagggttg tgacaagata ctctggagcc gcgtgggctc   180
aagaactaac agtggtttgt tttgtggctg ttgtatgctg ttcagtatgc cactgaagct   240
tgtaacttgt aactcgtaat agaaactttg gttgaagaaa gattgtacct cggacaagtg   300
gcaaataatt attctctaaa atattctgca tttgttttt tgaaaaaaaa aaaaaaatac   360
taataaatat atataataaa aaaaaaaaaa aaaggcgccg c                               401

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<210> 45398

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B11

<400> 45398

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 tgttggtaca aacttatatg aattgaaact agatctgaat gacaaagtaa acgttgaggc 240  
 tagcaaaata agtgtgggtg tcagggtccat attctgtatt gtagaaaaag ctgaggccaa 300  
 atgggtggaag aaacttggtc gagatgatca aagggcacct cactttgtga aagttgattg 360  
 ggacaaatgg gttgacgaag atgatgatgg tgctgatgtc aacttggatt gggg 414

<210> 45399  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-032-Q1-K1-B12

<400> 45399  
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 cgtttacact agggccaagg agaaggttac atcaattttc gcgtcctacg atacaacgg 119

<210> 45400  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-032-Q1-K1-B2

<400> 45400  
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 aagggcggca agggctctggg caagggcggc gcgaagcgcc accggaaggt gctccgcgac 120  
 aacatccagg gcatcaccaa gccggcgatc cggaggctgg ctaggagggg tggcgtgaag 180  
 cgcctctcgg ggctcatcta cgaagagacc cgcggcgtgc tcaagatctt tctcgagaac 240  
 gtcctccggg acgccgtcaa ctacaccgaa cacgcgcgcc cgaagaccgt gaacggcatg 300  
 gacctcgtct acgcgcttaa gcgccaggga cgcaccttt 340

<210> 45401  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B3

<400> 45401

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aacatccacg gcatcaccaa gccggcgatc cggatgctgg ctatgagggg tggcgtgaag 180  
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<210> 45402

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B4

<400> 45402

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aacatttatg gcatcaccaa gccggcgatt cggatgctgg ctatgacggg tggcatgaag 180  
cgcatctccg cgctcatcta ccaggagacc caccgcttgc tcaagatcat cttcgagcac 240  
ctcatgctcc accccttcat ctacacctag cacgtgct 278

<210> 45403

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-B6

<400> 45403

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ctatcatgga ccacaaacag ctagtaatga tcttgcagag catgcggcga aggattcttc 180  
ctttcctttg gaaccgtccc atgctcaaaa taacgaaaag gctgtagctc caaataattc 240  
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<211> 365  
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 <213> Zea mays  
  
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 catgataccc ttgagtggac cctcggaagc agccttaata gctttcttga tctcctcata 180  
 ggaggccccc ttctcgattc tgacggtgag gtcaacaacc gagacatcca cagtaggaac 240  
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 <213> Zea mays  
  
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 cgtaaagaag agcttgagcg tcaaattattg gagaaggaaa aagaagaaga aaaaaagaga 180  
 atgagcagtc aaaagaaaac tgcagatgat gaaaggggtga ggcttctcaa tgaacagagg 240  
 cagatggagc aggaccggat tcgtagagag atagaggaaa aaaattaagc agaagcataa 300  
 aagttgctag aagatttgaa taatgcatgg aaaaaacatg tctatgttga atgggagctt 360  
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<210> 45406  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-032-Q1-K1-C10

<400> 45406

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gccacttcag catgcacatg aagctcgtcg gcggcgactc cgcgggcacc gtcacggcct 120

tctacctgtc gtcgcagaac tcggagcacg acgagatcga cttcgagttc ctgggcaacc 180

ggacggggca gccctacatc ctgcagacca acgtgttcac cggcggcaag ggcgaccgcg 240

agcagcggat ctacctctgg ttcgacccca ccaaggagta ccactcctac tgcgtcctct 300

ggaacctcta catgatcgcg ttcttcgtgg acgacgtgcc gatccgggtg ttcaagaaca 360

cgagcgccga cctgggcgtg cggtagccgt tcagccagcc gatgaagctc t 411

<210> 45407

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-032-Q1-K1-C11

<400> 45407

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ccacttcagc atgcacatga agctcgtcgg cggcgactcc gcgggcaccg tcacggcctt 120

ctacctgtcg tcgcagaact cggagcacga cgagatcgac ttcgagttcc tgggcaaccg 180

gacggggcag ccctacatcc tgcagaccaa cgtgttcacc ggcggcaagg gcgaccgcga 240

gcagcggatc tacctctggt tcgaccccac caaggagtac cactcctact ccgtcctctg 300

gaacctctac atgatcgcg tcttcgtgga cgacttgccg atccgggtgt tcaagaaca 359

<210> 45408

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-031-Q1-K1-H5

<400> 45408

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cctcgcgagg ccgccgtgga aggaccccca gcgatgggct ccggcgagga ggacacagga 180

ggcggaggag gggcggtgcg gggcgcggtg ctgaaggcgc tcgtggttgt cggcggcgtc 240  
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 gacgcgctct nccgagaaaa gttctcgagg gagcacgcga ggaaggatcc tgacaacttc 360  
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<210> 45409  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caaagccatg ttttctcttc cagggagtat gttcaaccac agtgggtctt tgattgtgta 180  
 aatgctcgta tcatattgcc gacagaaggt tatcttgttg gaagagtacc tncaccacat 240  
 ttgtctcctt ttgtggacaa tgatgccgag ggatacatgc ctgagtatgc agagacaata 300  
 aagagactgc aagctgctgc tcgcaatgag gtgttgcttc ttccaggatg tggatgatgaa 360  
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<210> 45410  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 atgaactgct gaaacttaat ggagatggtt tgaattcaaa ggaggggatg gttgtttcat 180  
 ccgctgatga tgatgcttgg gagacagttg gacgaaagaa caaatctgca atagttagaa 240  
 ctcaagatgt tgtccctctt gagcttagtg ctatttttgg agggcagcta cagagcggtg 300



tgaaagctgc aagtaacaaa gcatcagcta ctgttcagcc cttcctactg ctccatctng 360  
 atatattccc agatgcttgt cagacgctta atgatgcanc tcggctgggc tctactcctg 420  
 aatctt 426

<210> 45411  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-F6

<400> 45411

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 ggacacatca tgaacatccg atacttcac tacaccaagt gctttcccaa ggataaagct 180  
 atcaaacatc ccttggtgat gaacattggt aaacaggctg acgaaaga 228

<210> 45412  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-F8

<400> 45412

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 aaccactaat gcaatgcgca agcaggtag agcctgaaca tgagctacct gagcccgaac 120  
 ctggaggcct gaggtccga cttcacgggc ggcgccaact tcaccatctc cagctcctac 180  
 acgctgcccc gcaacgtccc cttegcgctc cagcaccagg tccagcagtt cctccacctg 240  
 aagcagagct cgctcgacct cgacgcacac ggtgggacgg atcccgctc 289

<210> 45413  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-F9

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 ttcacggtcg cgatggtggt gtccatggcg tcgccttagg ggcgatcgat ctaggagaaa 180  
 gtgctggagc acgtggcgtc gtaccaccag caacaacgga ggcagaagct acgcaagagc 240  
 ctcacctaca ccggcggcga gctctcgttc gctgttcggg gccatgggga cgacctcgcc 300  
 tccacgtccg tcggggcata gaaggaggac atgcctcttg agcacgtctt caaaatcatt 360  
 agatccgatg gcaaaagtgt gtgtttatgg ttcctgagtc agatgatctt tcttcagttt 420  
 tagatgtgat agatattagt atgaaagatt aaaactagaa tgc 463

<210> 45414  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-G1

<400> 45414

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 ttatcacaac ctccatctgc taactcttcc aacatgatct aattcaaata aaataccaca 120  
 aatacctctt tatactaaca tcacatatga acatcataat caaattcaat cattattcta 180  
 taactctcta ctcatltaaa ataactctat acaaactcta tccttctaata acccct 236

<210> 45415  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-G11

<400> 45415

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 gtaccgttgc ttcgttggcg gcctcgctg gccaccgac gaccactccc tcaacaacgc 180  
 cttcagcacc tacggcgagg tcctcgagtc gaagatcatc ctggatcggg agacgcagag 240  
 gtccccgggc ttcggttctg tcaccttctc cacggaggac gcgatgcga gcgccatcga 300

gggcatgaac ggcaaggagc tcgacggccg caacatcacc gttaacgagg cccagtcccc 360  
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 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-G3

<400> 45416

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 aagaagtcag atgggaaggt cttggcgatc gatttgccga ccgacttgct ggaaaagaag 180  
 agttgcaaga caaccgcgg cgctcgaaga aaaggctgtt atagccctga tgaggtcctg 240  
 gctttcctga ggagtgttg cttctctgct aacacaacca tctacttgac agagacgtcg 300  
 tggtaaaaag gcctggatgt tctgaaggaa gaattcccaa acacttggt taaaggtgac 360  
 attatg 366

<210> 45417  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-G4

<400> 45417

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 cctgggccac ggacgaccac tccctccaca acgccttcag cacctacggc gaagtcctcg 180  
 agtccaagat catcctcgat cgggagacgc agagggtcccg cggcttcggc ttcgtcacct 240  
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<210> 45418  
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<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-031-Q1-K1-G7  
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 gattacttga agatggagaa gaaccagatg gagattgaga gcctggagtc caagatgctg 180  
 gttgccaacc agtccatcga gaccaccact tctgagataa tcaggctcag agaatccgag 240  
 ctatttcccc agcttcttga gctgattgct ggcttgatga gcatgtggag gggatatgtac 300  
 gagtgccatc aagttcagac ccacatcgtg cagcagctgg agtacctgaa caatgctcgg 360  
 aataccaacc cgacttccaa tgtccaccgg caagcaactc tttaactcga ga 412

<210> 45419  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-031-Q1-K1-G8  
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 tgggtggagag gaagaagacg gcaggcaccc acgcagatca aacgtgctcc gccacccttg 180  
 gtttcagcga atcggcgccg tacgccgtaa atcgagccgt ctccgagcag atcgacgcgc 240  
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<210> 45420  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-031-Q1-K1-G9  
 <400> 45420  
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cactcctaac acc

133

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<211> 447  
<212> DNA  
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<223> Clone ID: LIB3076-031-Q1-K1-H1

<400> 45421

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tcactctctg tgcgagagagg cagctttgcc aaaatcgtgg agaactctgg aagcatcgac 360  
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<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-H10

<400> 45422

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cacactacgc atgcagacaa tggatcgaac gagaagcaag cagcaagctt gaaactatgc 180  
atagtccacg aggtaagctg cctctgccta cttgcagctg gtcgcttagc cgagcagctt 240  
cttgacggcc tggaacctgg cgtccttgtc gccgaacttg gtgccttggt agtagtctag 300  
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<210> 45423  
<211> 332

<212> DNA  
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 <223> Clone ID: LIB3076-031-Q1-K1-H11  
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 tggtcgatga aatgataatt aagggtctcg cgcaccgata ttgtcattta caacacctta 180  
 gtgcctgaat attagaaggc atgatgctca cataaaacat tgtaagtgtg aaaacacatg 240  
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 ggacacacga tgcggaggaa gggccgtgcg gggcgcggtg cttaatgcgc tcgtgggtgt 240  
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<210> 45426  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-031-Q1-K1-H4  
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 tccggaaaaa agttctcgag ggaacaggct aggaaggaac ctgacaactt cttcaatttg 360  
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<210> 45427  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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tacatatggt ggcaagtctc tggactttat caactatcct tataatattta tgagatggaa 240  
agagcaatat tttgtcaacg ttggagtcta ctgtgggtta accatctctg gtttctacta 300  
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<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-D1

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aacctcctgc ccgctcggca tcacctcccg ctccccgacg gacgacacct tcgacctcga 180  
cctcctcctc cccctccccc tccacgccgc cgtctccgcg ccccgctgcg cggccttcaa 240  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-D11

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catgaaagca tacaaccgaa aaaccaatca caaaagctgt ttcattctaac cgtacaaagg 360  
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<210> 45430



<211> 373  
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 <213> Zea mays  
  
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 cttccccgga ccccggaactg tccccgcttc tccgcctggg gcagtatcgt cgtgatcgcg 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-D9  
  
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catgacatac gcacactaca tcattcttatt acatttctcat aatcacatac aaactaccac 120  
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<223> Clone ID: LIB3076-031-Q1-K1-E10

<400> 45433

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ggc gatggcg ggtaagggag ggaagggctc gctggcggcc aagacgacgg cggccaagag 180  
caccgacaag gacaaggaca ggaagaaggc ccccgctgctg cgctcctccc gcgccggcct 240  
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cgtcggcgcc accgtcgccg tctattccgc cgccatcctc gactacctca ccgccgaggt 360  
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cctgcagctc gccatccgcg gggacgagga gct 453

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<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-E11

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<210> 45435

<211> 373  
 <212> DNA  
 <213> Zea mays  
  
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 caccaccttc agtccgtcgg ggaagctcgt gcagattgag cacgcgctca cggctgtcgg 240  
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 aactccatc ccggaagagc taacgaggtg actccccacc tcgcccattg ctgacagcca 180  
 ttactccttc tccctcacca ccttcagtcc gtcagggaag ctcatgcata ttgatcacac 240  
 actcacagct atctgatccg gtcatacctc gctcttgatc aaagctgcca a 291

<210> 45437  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-E7  
  
 <400> 45437  
  
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 cgccgcgtcc aggggctccg tctccagcac caggcccttc tccacggctc ttaactacca 180  
 ccttgattcc ccggagaaca agccggacat gaaatgggag ttctcacagg cgaatatgaa 240  
 gaaggtaaat gagattctgt ctactatcc aagcaactac aagcaatctg gtattattcc 300  
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<210> 45438  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-E8

<400> 45438

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 gcgcggacac gtcaagtaca tccgctgctc caactgcgcc aagagctgtc ccaaggataa 180  
 cgctatcaag cggatcttgg tgaggaacat tgttgacat gctgccgtca cagatgtgca 240  
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<210> 45439  
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<223> Clone ID: LIB3076-031-Q1-K1-E9

<400> 45439

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 ccccgctcga gtcggagttg gagtcggacc cggagaacca gtgcgtgtac acggtgtacg 180  
 tgcggacggg gtccatctgg aaggggcgga cggactcgac catcggcgtg acgctgctgg 240  
 gccccgacgg caccggcatc cggatccggg acctggcggg gtggggcggc ctcatgggcg 300  
 ccggccacga ctactacgag cgcggcaacc tggacatctt cagcggccgg ggcccctgca 360  
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ggtactgcaa cta

433

<210> 45440  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-F11

<400> 45440

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tcacactctc cattattatg tccatategt ctcttattt tctatctatc tatgataaaa 180  
ttcttttatca cttctcttca taccaccatc aacaacttat tcataatcta ctcaagatcc 240  
tcacctacac tctctgctat ctctcattct ctattctttg ccatatttac tacctctcct 300  
ccactttcat cttttcatat aatgactaca tgcctcttta tcacgtcttc aaaatcatta 360  
tatectatc 369

<210> 45441  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-F12

<400> 45441

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ctccccctcg ccttcaactgt ctcgatggtg gtgtccatgg cgtctcctta tggctctatct 180  
atctatgata aagtgtcggg tcacgtgtcg tcataccacc agcaacaact tatgcagaat 240  
ctactcaaga tcctcaccta caccgtctgc tagctctcgt tcgctgttcg gagccatggg 300  
gactacctct cctccacgtc cgtctgtgca tataatgacg acatgcctct tgaacacgtc 360  
ttcaaaatca ttatatacta tggcaaaagt gtgtgtctat gattccctga gtcaaattat 420  
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<210> 45442

<211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 45442  
  
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 atctactaca ccttctacct ctacctcta ctccccctcc cacttcactc caccatctcc 180  
 acacccccat actcactctt caacttctac cccttctctc tctacaccct ctaccaccac 240  
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<210> 45443  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 45443  
  
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 cacggggcgcg gccacgtcaa gtacatccgc tgctccaact gcgccaaagt ctgtcccaag 180  
 gataaggcta tcaagcgggt cttggtgagg aacattgttg agcagggtgc cgtgagagat 240  
 gtgcaggagg cctgtgtaca tgatggatat gttctaccca aattgtatgc aaaggttcat 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-A8  
  
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aacgatatac ggctttttaa ctctacggaa gaactaaaca acataatcca acatgcaaaa 120  
catcaccatc atttgactga ccactatctg atcaatcaat aaaacctacc acataacctg 180  
tgaacaaaacg atctacttaa ctctgactta ctgaaaaaat tctacacaat caattactcc 240  
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<210> 45445  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A9

<400> 45445

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cataattatt ttccagaaga tttgcagatc gagtcgaacc ctatgccccca cgtaagcct 180  
gcctccgtcc tgccctctta ccaccaccgg gcgctccctg gccccgggtca ggggccagtt 240  
cccacgggac atgggatgat gcaccgggag gtccgtgatc agtacgggcc gcctgggtccg 300  
aggatgcacc taccaccgct ggggcac 327

<210> 45446  
<211> 405  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cagatgatga tataagacat tggccaagt tccatcatt tacgcctctt ctgggtcaga 180  
ttgagacaga tggtggcaag tctctggact ttagcaacta tccttatata tttatgagat 240  
ggaaagagca atattttgtc aacgttggag tcgactgtgg gttaaccatc gctggtttct 300  
actacgtctg cttttcttgt agcgatggct ccattaatgg attntattat gatccaaata 360

gcagtcatt tcagaagctc gagctgaaat gtaccaatgg ggaaa

405

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<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-B12

<400> 45447

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aatagctgtt tggagcacag cactacagca gcattatgtt caccaccttc aatggaagta 180  
ctcgttggc tcattcaacc tcttaggcca tactgtcca gccaggcag catcgttgtt 240  
agtattgggt ccttttgtgg acttctggct gaccaacaaa agagtcgatg cttttaacta 300  
cacatcaata gttacgttct ttatcgtgtt gtcgtgcata attgctgtcg ggaccaacct 360  
aagccagttc atatgcatcg gaagattcac ggccgtctcg ttccaagtc taggtcacat 420  
gaagacggtt ctctgtttga cccctgggtt ctttttcttt g 461

<210> 45448  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-B2

<400> 45448

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acgaatatta tgcttaaact ggccttcata cacttgttta tgacatctat tctgcatatt 240  
aaaaccttct attctttgat cttaaataaa tggtagctga atacataata tcgcaatatg 300  
atgactcttg gatagtcctc ttacatatac ttctcaatct ttgttgccca acttggtgcc 360  
ttattaaacc agcatttctc tgtgttccca ttccatttc ttttatatga aa 412



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 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-B3  
  
 <400> 45449  
  
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 ctataatctt catatctaatt attattctaa acgtccttca ttcactatatt atacatctat 180  
 ctcatatgaa acctttaatt ttttatctta aataaatggt acccgaatac ataatatctc 240  
 aatatgatga ctc 253

<210> 45450  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggcggggaag aagcccaagg ccgagaagcg gctccccgcg ggcaagtccg caggcaagga 180  
 ggggtggcgag aagaagggga agaagaatgc atagaagtcg gtggagacgt acaagatcta 240  
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 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-B5  
  
 <400> 45451  
  
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ggaatttgac cgcacatgaa taggggtggt tctgctcctg aagctcaagc tcagaatgtc 120  
gatccattga ttggtcgtaa agtgatgagt ctgtggcctg aatacaataa tttctatgaa 180  
gcagtcatat acgaatatga tgcttaaacg ggccttcctg cactgggtta tgacatccat 240  
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<210> 45452  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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aatttcaagg aggagaacaa cgatggctca nacaaaattt caggcgacag cctgaaagac 300  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-B9

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caccaatgga cagcctattc tagcttcact atgacggccg ctcggcgctc gagacgacac 180  
agactgacat atccacggcc tgatgcactg ctgactacta gaggacctat ccggatactc 240  
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<210> 45454  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gtcattatcc ctatttttgc tattgctttt agtatttttc tcagcttcag ccttgctgcc 300  
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attgatgcct atggctctat cagtgacaat g 391

<210> 45455  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C10

<400> 45455

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aataatttta tacatacttc caatttccca tcatttactc ctctccttat tcatattcac 180  
acaaattact tcaacactct tatactttaa caactatcca tatatatcca ttatcattta 240  
aattacaata ttcatccaac tttttactca actataaatt aaccatcac 289

<210> 45456  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C2

<400> 45456

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ccggagggcc caatcctatg catcaataac tgtggtttct ttggaagcgc tgccaccatg  180
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gcctcctcca tcgatagcat tgtcaatggc ggtgataatg ggaaaagacc tgcaattgct  300
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C3

<400> 45457

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aatctagccg catgactaca cactgaattc ccaaccctat acatcactaa cctatgcata  180
cattccaagc acatgacacc atcaacatcc tctacaactg ccacaactac aaaattcata  240
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C4

<400> 45458

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caagaatgct gtcttcgggtg acagcagtcg attgtctccg ggtgggtgtcc gcattggcgc  180

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gccagcaatg acctcgaggg gtctactgga gaaggatttc gagcagattg gggagttcct 240  
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cttcaacaag ggcctggtga ac 322

<210> 45459  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C5

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ccatgatgtt actgatacac tgcacaactt aaactgatac aaatgtcatc actagccttg 240  
caatatgata taaattctac attatcccta ttcttgctat tgctacactt actcttctta 300  
actttaacct tacttccatg tacgacattg cttgagctcc tct 343

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<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-C6

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cggctacgtg gaagcgagaa attacctgtc ggcgcctctg aaccttctca ccgactactg 120  
ggattcaagc cacgggatgg agtcctcccc tgtgggcgtt ctgcagaaga cgaccgcctt 180  
cggatcggtc tccagcagta caggagcag ccctaggggtt gagaaccacg gcgcctacga 240  
cggtttcggc aacctgcggg atgatctcgg ctcaattgta gtgcgccatc caagcatccg 300  
cctcgtgtga gctttctgag tttctgacca tggaaaactg caacaagact gcggcccgca 360  
tccatagaag tgggcatatg ggctactatg ctaatcctca aagcgtgagg ggggcattta 420  
ccttctagtt tgtcattt 438

<210> 45461  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A7

<400> 45461

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gagaaccctg ctccgagcat cgtagtggcc atcgccgcac ccgtggcggc ggagttcgtg 180  
aagctcacct tccgtgccct gtatatgcgc cgggctggtc caggcagcag ggacatgact 240  
gtgccgggaa ggccatccga ccaactgggc aggagagtcg tcactgacag tcccgtgta 299

<210> 45462  
<211> 235  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-G8

<400> 45462

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actcaactat atccacctct cattcacctc tctctctcta aataaccaac aatcaaactt 120  
ataatccata cttatctaaa attactccaa tactacaatc actttacact tctctccaat 180  
cctctaaata acatataatc cttacaacat ctattctcca tccatcacta cccct 235

<210> 45463  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-H1

<400> 45463

caggatcagg ggtgctcaat ttaagacctg tgagtacaac atcatcaggc ccattagctg 60  
agatgggtctc ttccatgagc ggagatgtgg cacgtgaata tcttgagaaa gtagcagatc 120  
ttcttttgga gtttgcacag gcagacaccg tggtaaaatc tctgatggcc agccaaagcc 180

ttcttacaag ggtttttcca atgtttaaca agatagagcc tcctattctt cttaagattc 240  
 ttaggtgcat taatcatttg tgggtgatc ctaattgtct tgagacactt caacgcacag 300  
 atgcaatcaa acatctgata ccgattc 327

<210> 45464  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-H10  
 <400> 45464

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 tccatccctt atctttacaa tcatatatcc ttactatctt ttcactcaat ctccaaacct 120  
 tactacctat actatataaa aaaaatatct tatatttaat taactctatt tctatcttat 180  
 ttcattcatc aaatatacaa actttcatct ttcaatctat tttccaacat ctccaatcaa 240  
 attctttcca ttcttttcat cattccacca aaaccttata tattaatcct atcaatcaat 300  
 acatt 305

<210> 45465  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-H2  
 <400> 45465

cacgcgtccg aaagctcagg gaaaccctaa ttaagacctt gcagtactac ataaatattc 60  
 acctccacaa gaaggttata ctttaccatc agcattttga ccctttaata cataatgcat 120  
 cacacatatc ttttctacaa aaatcccata tttcacacag gtgattaata tctcatcaac 180  
 atctaacatc tttttacatc gcaattcaaa acttaaacct agatataaaa ttccatctaa 240  
 cttaaaaaaa attacactat caatccaaaa tccacaaaac cttactcgct atatactcta 300  
 caccgattca actcgcttaa acatacctta ac 332

<210> 45466  
 <211> 367  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-H3

<400> 45466

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gnggttaaatt gctgatgacc agtgtcgtaa aggatcgact ggacaagaga atggccaact 120  
gggagaaatt ctgccttcga cattgcttcg atgtacctga aggttttgtg gccgatgaaa 180  
atgatagttc ttgtgcaaaa gaatcacaca aaaatgggac ttcagattca gatttggatt 240  
tggaacttga ctcttaagg agaaagctcg aaagtgctaa caaggagtct gaaaatcttg 300  
aaagagagat gtcgtcattg gaaaggcaaa gtatgcacaa aagaaaactt tgattcttca 360  
atctctg 367

<210> 45467

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-H4

<400> 45467

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ggtcctccct ccggacgggt cgggatgcac gcggcggttg ctcatcagct cgtggaggct 120  
ttggccgtgg tgaacgtggc cgtggcagag gtggacgggg atatggccag aaccgtggct 180  
tcagtgggtga caatggcaat gagttccagg gaggttatgg tggcggaggc tatggggatg 240  
gtgctgtaac tggtggatct gaaggagaaa gggagagaga cactcgtccc ccgtaccgtg 300  
gcggangcat acgtgggggt tacaggaatg tttagtttgg tgatgactc 349

<210> 45468

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-H5

<400> 45468



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 caagatcacg tatectaccc accactatcc tactaaatca acaaatccta tttaatattc 120  
 ctcacaaatt aacaccattt accaca 146

<210> 45469  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 45469

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 tttcttcgac atttcattgt cacttccaaa gcagaaggca tatectaag atattgatct 180  
 ggaatcctcg tatagtgttt tgcctccct tgaggagtta gtctctattg tcagaaggga 240  
 ggcattctgt gatcaaaactg aactatttca gaggggttga tcctcagtgt gtattctatt 300  
 atcaaaggat gagctggtcg tcttgctaca ctcttgtagc ttggcaacat gtgataagat 360  
 aaaacagtca gcagatgctt caattcaagc tattatcatg tttattatc 409

<210> 45470  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-H7  
 <400> 45470

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 acaacatagt ttgggacgaa acctttagct caatattgtc acacttagcc acttaggctt 120  
 taaagccacc atatgtgtga tatatcttat cagtctagta tatgatacca tgcttgtttg 180  
 tgtggataat ttttactaaa tgataacttg gccagaatt tacctttata taaaaaaaaa 240  
 ctgggccggg gagggaaaag accaccctcc cggatttcca tataagaaga gaccgaaaca 300  
 atgggtcccgg ccgagaaaat ccccgaacct tggccctcca tcactaacgg gccgacgtca 360  
 actgtccact ctgcaac 377

<210> 45471  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-H8

<400> 45471

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cccgcgcagc cagcccgagt tccccgtgtg ctggtggacg gggcgccctgc gcgcgcccga 180  
cgccgcccag gtggagttcc acgtcggcgt cgacggcggc tccttctacc tggcccccaa 240  
cgcgagccg ggccagcgcg tcccgggtctc cgtcaccccg cacggctcgc cgctgc 296

<210> 45472  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A1

<400> 45472

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tcctccgccg ccgcttcttc tgcctcaact tttgggtcct cctgttcag ggcctcatcg 120  
gccgcgtccg cgccatccct ttccggtgca acgcccgcac cctccgctgg aacaaccctt 180  
agcttattcg gcgctgctac ctccgccgca agcagccctg ggttcttcgg cgccaccttc 240  
actgccgcaa gcagccccgg cctcttcggt gcgtccgcca ctggctctgc ggcaacctcc 300  
ccgagtctgt tcggtggcac ctccggccta ttcggcgga cttcctccgc agcgaccacc 360  
ccgag 365

<210> 45473  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A10

<400> 45473

cccacgctta cgaccacgcg tctaaagatc tcgatataaa ccacaagtct tggggctctg 60  
 tcgcacttcc tacctgctta cattcattgc gcacttataa actctaactg agaaaaattc 120  
 atacattgct tcctccgaca tatggcttgt acctgtgaac taataatcct tcatcactac 180  
 attgttaact tgcttgtatt gtacgggaca ctaatgatgg acttctgatt gactctaatt 240  
 gacgaaagac accacactca ctcaatttcc attaggacaa ctcccttgat acgtcattga 300  
 acccatactg catcacattc gtcacgggga accaatacat gacgttcagg gtctgcatac 360  
 tcctcattat cttcacatca 380

<210> 45474  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A11

<400> 45474

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 gcaatacgtg taggatgata aggcagctgt ctatctgtgt tgcgcttcac taagtgtgat 120  
 tgtaacagtg gtacctcttg tgttctgtgt tccgcgatgt tgcagttggt tgcttgatcg 180  
 aaagatgttt caacctccca tctgctagct atgatacaga tgggtcccctg ataataatga 240  
 tgacatatcc tgtg 254

<210> 45475  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A12

<400> 45475

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 tttttcgatc tctgtccact tcaaacctcc tttcctccta taaccaccac ttacacacta 120  
 gctaataaaa ctccatacct cctttcctcc aacagacacc catgacca 168

<210> 45476  
 <211> 363

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-030-Q1-K1-G5  
  
 <400> 45476  
  
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 tttctgcttc ttttatgtct gaacaatctt tgctttattt gggattgttg ggagagtact 180  
 ctcgcgcaac gagggaaaagg cacaaggctc cgttccactg catgcgtcaa gagcctgtct 240  
 ggttttcttg ttctgatttg tcatttgctg gtgctcaaag ccggcttggg ttccctgaag 300  
 gatcagcatc tactcttgat tgtggacttt ttgcgcatctg atatcaactt cataaatctt 360  
 tat 363

<210> 45477  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-031-Q1-K1-A2  
  
 <400> 45477  
  
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 ctacaccttc tacatattgt caatgtcttc cttcgatgct ttttctgctc caaattctat 120  
 ctctcactg tctatggcct gatctatcga gtccgcccc taactactcc ctgcaactcc 180  
 ctctgctac gatgacacaa cacttagatt atatcccgct cctacctccg tctaaacac 240  
 ttttgtgttc ttcggtcca ccttcac 267

<210> 45478  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-031-Q1-K1-A4  
  
 <400> 45478  
  
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gggggtgaga agcccctact ggatacatTTT gacatgaatc aattcaagaa gagtctcttt 120  
 ctcacactca cacacatcaa acgagacatt cgaaaaggcg gcctcacacg aggtggctgc 180  
 aaagctacaa tgcacctcgt gaaatgcttc aacatcgagc acattggggc gacaaacata 240  
 gccatcatct tctttgccac gctgcccttc atgccattgc caggcgcctt cgactaagat 300  
 ccctaccttg caagattaaa aacactagcc tatatgggta cttngcaacc cttctgatat 360  
 gt 362

<210> 45479  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-031-Q1-K1-A5

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 gcccaagggtg gttgatatgc ttctgttcaa cgcgacggag gagctgaaca acatagtcga 120  
 acatgcaaag cagcgccatc atgtgattgg gcagtatgtg atcggccaaag agggcctggt 180  
 gcatgagctg gggtcgaagg atctagggaa ctctgacttc ctgaagaaat tctacacaag 240  
 caattacttc tgatctgtgt tgcagattta caacatctgg tatactccgg gtgggtgctct 300  
 gaataagacg aactgagga cctatcagga ccgattgttt cgcaccggag gttntgatct 360  
 atttggccct tgaatcctct gttcaatgtg atactgctgt cagctgttt 409

<210> 45480  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-A6

<400> 45480  
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 cggccccatt ttcaaggata tgcttctgtt caacgcgacg gatgagctga acaacatagt 120  
 cgaacatgca aagcagcgcc atcatgtgat tgcgcagtat gtgatctgcc aataaggcct 180  
 ggtgcatgat ctggggtcga aggatctaag gaactctgac ttactgaaga aattctacac 240

aagcaattac ttctgatctg tgttcagat ttacaacatc tggcatactc caattggtgc 300  
tctgaataag act 313

<210> 45481  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D4

<400> 45481

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tttctctcct ctgtccctg ctgctgttca agctgatgct cctgcccttg atgataatga 180  
cttcattgac gccaaaggaca aaaagaacaa agccagggtca gccaaaacaa aagcttctac 240  
tgtgaatgct ccatcacctg ttgtttcctt tgatccacca gctatttcga tgccttctga 300  
aaagga 307

<210> 45482  
<211> 309  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-030-Q1-K1-D6

<400> 45482

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ccttcttcat gagctgggac catgcctcct ccatcagctc ccgctccttg cgctccatct 120  
cgtatctctg cgctgctgc ttgaccttca ccctctctc cttcagatcg cgcataatcc 180  
tgtcatctac ctgctccatc tgcctccagt gcctccgctc tgcacctatc tcaacctgga 240  
cggctgccac atcgttgctt gccttgctcc ggaccggtta ctttcacgcc gtcttctcct 300  
aagccatcc 309

<210> 45483  
<211> 389  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-D8

<400> 45483

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ttattaagac tatatttaag gacacgacna tttatttaaag atgagggtca ctactttctc 120

caccatctta tttcatcaat aatctacttc cattcaatac aagtatccca ccacaatttg 180

aatttgtaaa acacacttct acattccact tactctactc actttaatat tttcaatttc 240

aattattcca aatcatctat tcttcattcc catccaaaat ccactcttca aacacctact 300

tatatttcac ctaaaatctt atttaciaaac taatattatg gcaacatata taactttatt 360

tcatgtaatt taaccctcta ttttactac 389

<210> 45484

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D9

<400> 45484

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ctggtaggta ttatactgca agggacgctt acccttatcc atatccctct tccgctcaag 120

agctgaagga tgaatcagca tctcccgtcg tcaatacaga agcagaacca gcaacctctg 180

atccctaagc ttctgctgct gcttaataacc ccgctctggc ttatccgtcc tctgatgatc 240

cctataaggc ctatcctgtc gctgatgtgg cccataaagc catctaata ga cgcctgttctc 300

cttactctca ctgctgcacc taacatcagc tctagagatc tattttc 347

<210> 45485

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-E1

<400> 45485

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gcctgcgga ggcgcagtc cggctgctgcg acagctactt gtggctcatc aagattcgac 120  
 cgtccaccag attatgatta ccccatgggc gggatgaaca gcccaggca ccagagcgcg 180  
 gccgtcaggc tgcagaaggt gtacaagagc ttcaggacga ggcggcagct tgcggattgc 240  
 gctgttcttg tggaacaacg atggtggaag ttgcttgatt ttgcactgct caagcggaac 300  
 tcggtgtcat tttttgacat 320

<210> 45486  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-030-Q1-K1-E10

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 cttcatcaca caactttctca acatcaccaa taaccaacat tacataaacc tcttcaattc 180  
 ttatccctat ttcttataaa atcaatanct acaacatatt ttaacaatnc caaatcaaca 240  
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<210> 45487  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-030-Q1-K1-E11

<400> 45487  
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 gaagatcacc cctgtctcaa atggcggcgc atcgactgcg agcccctctt ctccctcggt 180  
 ggccgcacgg ccacggcgac tcccttcang cctccaatct gtgactggta gagggaaggt 240  
 ttccttggca gccatcactc tagatgatta ccttccaatg cgaagcactg aagtgaagaa 300  
 ccggacatca acagatgaca tcacaaagct gagactaatc acagcagtta aaaccccta 360



ttttc 365

<210> 45488  
<211> 319  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-030-Q1-K1-E2  
  
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gctacttggtg gctcatcaat attcgaccgt ccaccatatt atgattaccc catgggtcact 180  
atgaacagcc ccagtcacca tatctcgtcc gtcattgctgc acaagggtga caatatcttc 240  
acgactattc ttcattcttg tgattgcaact gttcttggtg aacaacgatc gtggaattta 300  
cttgattttg cactgctca 319

<210> 45489  
<211> 152  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-030-Q1-K1-E3  
  
<400> 45489

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atcattaccc cattttctat attaacatcc cc 152

<210> 45490  
<211> 382  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-030-Q1-K1-E4  
  
<400> 45490

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tattgttgca tgtgagaaat acggtcgcaa tgatattaaa agtatatcat ctgaaatgga 120  
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 actgagtgat tatgatagaa ttataaaaaa tattgaaagg ggggaagcaa ggatatcccg 240  
 caaggatgag attatgaagg ccattgggaa gaagctagac cgctacaaga acccatgggtt 300  
 agagttgaaa attcagtacg gccaaaataa aggggaagtc tataacgagg aatgtgaccg 360  
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<210> 45491

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-E6

<400> 45491

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 ctcacatcaa cattgtggtc attggacatg tcgactctgg caagtcgacc accactggcc 180  
 acctgatcta caagctcggc ggtattgaca agcgtgtgat tgagagggtc gagaaagagg 240  
 ccgcggagat gaacaagcgg tcattcaagt atgcctgggt gcttgacaag ctcaaggccg 300  
 agcgtgagag aggtatcaca attgatattg ctttgtggaa gttcgagacc accaagtact 360  
 actgcactgt cattgatgcc cctggacacc gtgacttcat caagaatatg attactggca 420  
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<210> 45492

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-E9

<400> 45492

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 cgttttcttt cccaagctgt cagcctttcc atcctctcca aatgtcacct atctaattgtt 120

tctatctatc tcttaattac acaaatacata aatacctatc ttctattaaa cgttcactcc 180  
tattccttcaa tcttttctcc cattccatat ttcaacatta tatcacactc tcaactcaata 240  
tccataaaat cctacaatca atataacttc ccttcccatc ttacttttac atacctttat 300  
ctatcatcat ccccaactaa ttctatctta tctcctatct taataacaac ccaccaatt 360  
ttcatttttt atacaacacc ctttatntc ctttaacca 399

<210> 45493  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-F1

<400> 45493

cccacgcgtc cgccacgcg tccgaagatt tagatttgga gagacacaga ggcctcactg 60  
cacacgctgt cttgtctctc aggccagag ctttcttgga tcgcgaggaa tccactggaa 120  
atthtgcaat tgtagtagag aactgtatcg tccgacgaag gtgcatgggtg ttggccatgg 180  
gtcacggcag ggaacagaga cgagcaggtc ggcgctctcc cccagctca ttgatcctgt 240  
cctcgctata aggtagtcct gcggtggcct acgaatttca ctgcatcgaa cagaca 297

<210> 45494  
<211> 339  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-030-Q1-K1-F11

<400> 45494

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ttgccagant gctttgccgg gttgcgggcc attgctgaaa ggaactcggc atttttcggc 120  
gttctgctga accagatggg gctagcttgc gtgcagctat tcaagataga ccatgctgca 180  
cagttgtttg aacaggcatg ggcggttctt gaacacgagt cttgcgcttc tcattctgat 240  
actcttggtg tgtacagcaa ccttgctgca atctatgatg ctattggaaa agttgaagat 300  
gcaatcgaga tctgcagca cgtgctgaaa gttacggaa 339

<210> 45495  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-F2

<400> 45495

cgacaagctt ggcggagctt ttgctcgcta gccatcttct ggacctcaca agtccagggg 60  
gtaggttcct ctgatacctca tgatcaggaa caggctcaag tatgctctga actaccgtga 120  
ggtcatttct atcctgatgc aacgccatgt acttggtgat ggcaagggtca ggactgacaa 180  
gacctaccct gctgggttca tggatgtcat ttccatccct aagacaatgg agaactacag 240  
gctgctttat gacaccaagg gccgcttccg tcttcacca atcagggatg acgatgccaa 300  
gttcaagctc tgcaagggtga aggccgttca gtttggccag aagggcatcc cctacctgaa 360  
caccta 366

<210> 45496  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-F4

<400> 45496

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cgggaagatg ttcaatttgt catgcttgga tctggtgacc cagagcttga agattggatg 180  
agatctacag agtcgatctt caaggataaa tttcgtggat gggttggatt tagtgttcca 240  
gtttcccacc gaataactgc cggctgcgat atattgttaa tgccatccag attcgaacct 300  
tgtggtctca atcagctata tgctatgcag tatg 334

<210> 45497  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-G11

<400> 45497

catccaactt tcaataccgt ttcttctata tctatctcca ctgaccacc tactaccact 60  
acctcaacaa catccttcac acctacttct aggtcctcga ttctaagatc atcctatata 120  
cggagactct tatgtccac atcttcgggt tcttcacctt ctccacttat tactc 175

<210> 45498  
<211> 362  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-030-Q1-K1-G3  
<400> 45498

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catgggtcttg atattcggtc aggagcacca ctctggagag agggcttga ctatcggcat 120  
ggtacaggcc atggaattgg atcttatttg aatgtccatg aaggctcctca tctaattagc 180  
ttcagacctt ctgctcgaaa tgtaccgctg caagcatcaa tgactgtgac agatgagcct 240  
ggttattatg aagatggggc ctttggtata agattggaga atgtacttat ttgcaaagac 300  
gccaatgcta agtttaattt tggagataaa ggttatttgg catttgaaca tataacatgg 360  
gc 362

<210> 45499  
<211> 249  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-030-Q1-K1-D3  
<400> 45499

aattccctac tcgaccact cgtccgctca cacataccac cacactcact cacctttacc 60  
ttaaccatc atacaacaat acacacgaca tgatactatc ttttagcaaa acaatcaaca 120  
accctacttc taacaatgta atcaccattc actcacccca cgcttcaaac tttaataatc 180  
ttaccttcca ttccctctat atccccctac cttttccaac catcaataat attacttttc 240  
caacaaaac 249

<210> 45500  
<211> 167

<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-030-Q1-K1-G4

<400> 45500

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 .tctcatataa atntccatta atatcccat ataattacat acaaacctaa ctctctacac 120  
 ttaccaatac ctacatcaat tacttctacc catnaatcat catctca 167

<210> 45501  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-B11

<400> 45501

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 atcatatttc acaaacttcc cataccacct tctacaaata ttcttattct accttcacaa 180  
 tttaatgaac ttatccttat ttaaacctct acaatcaaaa ctatataact atcacaacaa 240  
 cttttatcac ttcaactttc aacaataact ctaactacat ttcctttctac tatctccctt 300  
 tcaacaatta tcctcaattc ttcattaatc taaccataac 340

<210> 45502  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-B12

<400> 45502

tcggcgcgac gtgctggcgg acgatgcggc gctgcgcgcg gcggagtcgg cgcgcaggat 60  
 ccagctgcat tggagcctgg tggaggtgct ggagtcggag cgcctggtgc tgctgggcga 120  
 gaacgcgcgc ctgggggttcc gcgcgacggc ggccgaggac gaggccgcgg cggcggcggc 180  
 cgacctgtgc tacgcgcgcc gtcgcgccgt cgagatggcc cgcctcgtcc tcaggctccg 240

cgaggaccac cgcgctgcg tgctgtggcg catggccgag acgctgcagg cgcggtgta 300  
 cgcgctggag ctccgcaacc gcgagtgtg cgaggccacg gcggcgtggg aggccgaggt 360  
 ccagcggctc agcggcgaga accgacgcc 389

<210> 45503  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-B2  
 <400> 45503

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 gccggcgcca acggcgcata gacctcgccg gcgcctctgc gccgccccga gggctccgga 120  
 ggtgctattc gcgcgcatc cgacggtgcg tccgtcgatc tggcatagat tcagcggcgc 180  
 tgcgagctgt gaaatcgact tgagcggaga tcagaaacat gctacccaac ttgaaaatgg 240  
 cactagtacg gtctctaaga tagtcgga 268

<210> 45504  
 <211> 90  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-B3  
 <400> 45504

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 caccaccctt actcctccac atattctatt 90

<210> 45505  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-030-Q1-K1-B5  
 <400> 45505

ggaataatcc agaggataac aaaccatctg taggtgaaca aggtgatgct tggggaagcg 60  
 aggtgtcttc tactgaaggt aaaggacaac agaatgattc ttggtcaagt aagatgactt 120

ctcgtggtac tgaggatacc agcggtaggt gggacagcaa ggtgaaaggc tcttcctgca 180  
atgatggggg tgaaggacta caaatgatc catgggcaaa caagattggt tctaacgaag 240  
gtaaagaaca agaagctgat ccttgggcca gcaagatgtc ttctgctgtg ggtgctgatg 300  
acaagaatga taactggaac acgacaacaa agggcactcc atctaacgaa aaggctgacg 360  
acccttggaa tagtaagcgg ggtaatgatg atgacagcaa gaaaactgac gcctgggggtg 420  
cttgctcgtc aggtggggat 440

<210> 45506

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-B6

<400> 45506

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gaacgagggtg tcttctactg aaggtaaagg acaacagaat gattcttgggt caagtaagat 120  
gacttctcgt ggtactgagg ataccagcgg tggctgggac agcaagggtga aaggctcttc 180  
ctgcaatgat gggggtgaag gactacaaaa tgatccatgg gcaaacaaga ttggttctaa 240  
cgaaggtaaa gaacaagaag ctgacccctg ggccagcaag atgtcttctg ctgtgggtgc 300  
tgatgacaag aatgataact ggaacacgac aacaaagggc actccatcta acgaaaaggc 360  
tgacgaccct tggaatagta agcggggtaa tgatgatgac agcaagaaaa ctgacgcctg 420  
gggtgctggc tcgtcagggtg gggatcagga a 451

<210> 45507

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-B7

<400> 45507

gcgggggctc tcagggcgcc cctcgggagg aaagcgagag ggggccccaa cgaggcgcca 60  
gcgctcgtct tccagataac caccgcgggtg gcctcgtacc gccgcctcct caactcgtct 120  
ggcacgcccc aggacaccat cagcgttcgt gataacctgc ataagactag tcagaacatc 180



cttcaattag caaaggatgc gaaagataag ctccaaaagg ctgctgaagc agacaagagc 240  
 actgatacaa gtgcagacaa gaggatagct gatatgaagc ttgccaaaga ttttgctgcc 300  
 acaatggagg agttcaggaa acttcagagt cttgcgattc agagggagac ggcatataag 360  
 ccaattgttc cacataatac gcagtcaaac tattctacag atgagcgaag ttccgaatct 420  
 ggtaatatgc ctgagcagcg tg 442

<210> 45508

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-B8

<400> 45508

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 catcgacgaa cagactcttt ttatactgat caccaccgac aacacaatga tccttcgtca 120  
 actaaaatca ctctcacgc caatgaacac actaacgctt cctgatacac tacataaaac 180  
 tactcataac atcacttaat ttagcacaag gatccacaaa ataatccatc aacaa 235

<210> 45509

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-C11

<400> 45509

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 tcacaattca cacaaccca taccctaaaa cctaaccaaa aacaacatac acaatcaact 120  
 acacacaaca tactaatacc tcctaactca caaccaccaa atcaaaacaa tacacaccat 180  
 accccaaacc actcaaaca catattccca ccctcaacac cactataaca caaaaacacc 240  
 cacaaacaca acaaactcna cacactaact cacacactaa atacctcaaa aaacac 296

<210> 45510

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-030-Q1-K1-C12

<400> 45510

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gtatgtctct atactacgcg acacctacac catcaatcac atctccacac tctctatcta 120

cattaacaac cccaactact acaacctaaa tccacttctg tctcacctaa tctaattctat 180

aactcctatc cttatcttca atactaccct caatatatac aatatactat ttccacacca 240

acctaattac ttactctatc atacacttta tactctcttc ctacccacca aata 294

<210> 45511

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-C2

<400> 45511

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agttgctcac ctacggttag cgtgcgcgcg ggagacgtag atggcgggctt cggaggcggc 120

agcggcggcg gcaacaccgg tgacgccgac agaggggacg gtgatcgca tccacagcct 180

ggaggagtgg agcatccaga tcgaggaggc caacagcgcc aagaagctgg tggtgattga 240

cttcactgca acatggtgtc ctccgtgccg cgccatggct ccaatttttg ctgatatggc 300

caagaagtcc ccaaagtgtg ttttcctgaa agttgatgtc gatgaaatga agaccattgc 360

tgagcaattc agcgtaaagg ccatgccaac attcctgttc atgaaggag 410

<210> 45512

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-C6

<400> 45512

ctggacttta tatccaacaa gtttcgcttt aagcacgtct tttcaaactt cagctaagct 60

agctttttcaa ctaccgcctc cccaacacaa tgtatcagtg gccacatcaa tgtacattat 120

aacaatcaac ttctgtctct tcacctgaca atccctcaat atccatctcg tgataccatt 180  
 atagacacta catgactttc atgtccacaa ctatctttct caacccttta cttcaccttc 240  
 tctctccat 249

<210> 45513  
 <211> 484  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-C8

<400> 45513

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 cccacaggca aatttttctc gagtcagtcg ctttataagc tgcgctgcag ccatggacgc 120  
 cagcggagcc ggtagcaagg cgaagaaggg ggcggctggg cgcaaggctg gcggccccag 180  
 gaagaagtcg gtgtcgcggt ccgtcaaggc cgggctgcag ttccccgtcg gccggatcgg 240  
 gcgctacctc aagaaggggc ggtacgcgca gcgctgggc accggcgccc ccgtctatct 300  
 cgccgccgtg cttgagtacc tcgccgccga ggtgctggag ctggccggga acgcggcgaa 360  
 ggacaacaag aagacgcgca tcgtcccgcg acacttgctc ctggcgattc gtaacgacgt 420  
 tgagctcggc aagctgctgt ctggcgtcac catcgcgcac ggggggttgc ttcccaacat 480  
 caac 484

<210> 45514  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-C9

<400> 45514

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 gacttctacg tcgtgctgga gcgtgccggc taccgtgtgg cgcgccgcat gaggtgcaag 180  
 tcccgcgtcg ggattcagca cagggtgacc aaggaggact ccatgaagtg gttccaggtc 240  
 aagtacgaag gcgtcatcct caacaaggct caggccaaca cgttgtaaac ctcaccctg 300

ggcaaaacag ctctctggtc tcgtatcctc ctccgtgtca acgcaagacc acccacctcg 360  
ccaggggtttt tttttgggtt aatttgggtt ctacgccctg atgtttattc tgct 414

<210> 45515  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D1

<400> 45515

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ggtttgcggt agctgctagc aaaacaatgg agaaccctgc tccgagcatc gtagtggcca 120  
tcgccgcacc cgtggcgggc gagttcgtga agctcacctt ccgtgccctg tatatgcgcc 180  
gggctgggtc aggacagcagg gagatgactg tgccgggaag gccatccgac cagctgggca 240  
ggagagtcgt cactgacagc cccgtgtacg acggccgtgg cgccgacgcc cgccctcgtgg 300  
ctcgcataca gggagtcacg gtcctgggtc gtaacgcag 339

<210> 45516  
<211> 171  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D10

<400> 45516

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actacaatct ccatcacaga acttcattct ataactcaaa catactcata actatattct 120  
atactataaa aaccaatac tatcaacaac taccctctta aactctccac a 171

<210> 45517  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D11

<400> 45517

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gtggttgggt tgaatcatgg gccttcaatt ctcttgacga tgtttgtggt gtaaaccat 120  
cacaagggtg aacctttgtg aagggtttaca aatcagggtc cctcgggaga tcgctcgaca 180  
tcaccagatt cggcagctac tacgagttgc gtgtcgagct cgagcggta tttggtctcg 240  
aaggccaact ggaggaccct gcaagatcag gctggcagct tgtattcgtc gaccgggaaa 300  
acgatgttct tctcctcggc gacgaccctg ggcaggagtt tgtgaatagc gtatggtgca 360  
taaagatcct ctgccgcaa g 381

<210> 45518  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-B1

<400> 45518  
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tatggctgct ccaacagga agaattgtgc ccttcagagg aggggtgaact tcagagtaag 180  
agcagctaag gagctgtact tcaacaagga tggctcagct atcaagaagc tccagactgg 240  
agtcaataag cttgcagacc tagtcggagt tacactcgga ccaaaggga ggaatgttgt 300  
tttgagagc aagtatggtt ctctaaaat tgttaacgat ggtgttacag 350

<210> 45519  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-D2

<400> 45519  
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tcggtcgggc cagcgggcaa ccataatca tgttactcgc catcctgtcc gaatcgctgt 180  
aggaatggga gccagggggg agcatggatg gaaggcaaaa agcatggcac gagaacgcga 240  
gaagatgcta aggttattgt ccttttcatg ccaactctag ccggatatct tccccgatgc 300

cgctgcatat tatttcggtc atcttcttga ttcattgattt cgcgagact ctgacctcga 360  
atcctttatg 370

<210> 45520  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-029-Q1-K1-G11

<400> 45520

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atgataacag aagtttcaac accttaacag caacatactg cagccgagag ccaagtgcct 120  
aaacagcata acataaatct atcgccagta acaaactcgg caataactag cagcaaccat 180  
aactcctcaa cctttcatag ctttcgaaat aagaaaaggt aatattttcg agaaccataa 240  
ttcgtcacat tcggccaatc tccaaatcaa gagcttattc ttntcctca gcctcctcga 300  
gccatttgac aaacggctcc agagctttca caaaagattg cctgcccttc gggtttgaac 360  
ctttacggaa c 371

<210> 45521  
<211> 462  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-029-Q1-K1-G12

<400> 45521

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acaactttgc tattgtgttt gctgctatgg gagtgaacat ggaaacagct caattcttca 120  
aacgtgattt tgaagagaat ggttccatgg aacgggtcac cttttttctg aatctggcta 180  
atgatccac cattgaacgt attatcacc ctcggattgc tctaacaaca gcagaatatt 240  
tggcatatga atgtgggaag catgtacttg tcatcttgac agatatgagc tcttatgcag 300  
acgcacttcg tgaggtttct gcagcccag aagagggtgcc aggtatgcgt ggttatcctg 360  
gatatatgta tactgatctg gcaacaatat atgagcgtgc tngcgtatt gaaggaagaa 420

cagggtccat tacccaaatt cctattctga caatgcctaa tg

462

<210> 45522  
<211> 234  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-G2

<400> 45522

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gagcaccgct gagcctgcgc gtgctgcttc accgaatcga gtcagaccct gtccgaatcc 120  
gagccgagggc atggcagccg gaactgagggc ctcgaaggca gatgaggctg aggatgactg 180  
gcctaagcgg gacagacaga ggatgctcca tgcattgagac caggttgggg atct 234

<210> 45523  
<211> 54  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-029-Q1-K1-G3

<400> 45523

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<210> 45524  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-G4

<400> 45524

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cagaaaatga tgagttttgc ttctcagatg ggtgggcctg gtggtgcccc caggagtcca 180  
aagaatatta actttggacc ttcagtgaga gctacaacga gtaaactctg cccgtggatc 240  
atcatctcaa ccctgttttg gagaaccctg atgaactatc agatgaccaa aggatgagcc 300

agtcatectc tagtcttccg ccttctacaa ctgatatgca agaaaccatg aggaattcta 360  
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<211> 142  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-029-Q1-K1-G5  
  
<400> 45525

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gtccgccacc cgcgcctatt cccgccgtcc cggggccgct ccgcgcagca ccggcgcgca 120  
cccagcaccg tgcgcatggc gc 142

<210> 45526  
<211> 209  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-029-Q1-K1-G6  
  
<400> 45526

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caccgctgtg cctgcgcgtg ctgcttcacc gaatcgagtc agaccctgtc cgaatccgag 120  
ccaagggatg gcaaccggta gtgaggcctc gaaggcaact gaggctgtgg ttgactggca 180  
taaacaggac agcaagagga tgctccatg 209

<210> 45527  
<211> 265  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-029-Q1-K1-G8  
  
<400> 45527

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cccaatatgc cagaaatggc tcttgatatg cttaatgatg catctgacat gattgctagt 120  
atgcctcctg atgacgtaca gaaaatgatg agttttgctt ctcagatggg tgggcctggc 180



ggtgccccca ggaggtcaga gaatattaac tttggacctt cagtgaagagc tacaacgagt 240  
aattctgccc gtggatcatc atctc 265

<210> 45528  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-029-Q1-K1-G9

<400> 45528

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gggtttggag aatctgattc ctggagccat tattttggat tccgcaagat tgagagtaca 180  
attgatgatt ctacgggtgg gaggatcttc aaggtaaagtg gtgaacctat ttttatccga 240  
ggaggggaact ggatattgtc agatggcctt cttagattaa caaagaagcg atatatgacc 300  
gacatcaagt tccatgctga catgaacttc aatatgctta gatgttgggg tgggtgggcta 360  
gcagagagggc ctgactntta tcatttttgc gatgtctatg gtctgatggg atggcatgaa 420  
ttttggataa c 431

<210> 45529  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H1

<400> 45529

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ggatgaagcc tgggtccggat tccgttgga tcatcgctgt ttcgcacaac tgcagcggcg 180  
tagcagcacg agcttgcggc cttgtgagcc tcgagcccac aaagggttgcc gagatcctta 240  
aagatcgcg c atcgtgggat cgcgattgtc cgcgtgttga taccctccat gttatcccta 300  
cgggtaacgg tggagcgatt gagctgaact atatgccgac ttatg 345

<210> 45530  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-H10  
  
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 aaacaaacat ctgtatgtaa tattcattcc tcaattgcat gatgattgcc taggatctct 180  
 gaaacttata tccattacat catgagatac ctctttctct gtgctatcac tatataacta 240  
 cttattcctc a 251

<210> 45531  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-H11  
  
 <400> 45531  
  
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 atgtctcgta taaagatgca tatggcagaa ggttcttttg gtgacaggat ccggtgccag 180  
 caacctgggt gcaatgaggt tgctgataga agggtagtgt actgcaaaat tcacagtgga 240  
 gagttgtcat gccaacagtt cagttacctc cagagcggac tggagagctc aggtttatct 300  
 gtgcgccttg ttaacgacag ccaatttaag ggatctgttt ccattgcagc agtgccatgc 360  
 actgagcaag agttacatgt caagcatgaa ggtggtgatc gaggtaaact aaaggatagt 420  
 tctgggtaca ctttgggtca ggctgcacaa tt 452

<210> 45532  
 <211> 196  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-H12  
  
 <400> 45532

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gtacagattg gtagccagga acaaagagaa aaacacacaa cagtaatggg tcacgaccat 120  
atgtctcgta taatgatgca tatggcataa ggttcttttg gtgacaggat ccggtgccag 180  
caacctgtgt gcaatg 196

<210> 45533  
<211> 88  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H3

<400> 45533

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agttcatagt gaggtttatg tgacacac 88

<210> 45534  
<211> 184  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H4

<400> 45534

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cgcttagcac atatcggggg agcggaacag ctgtcaacat gctgcacatg gatgggatga 120  
accctgaacc ggaaggcgta ggaatcatct gtggctcaca caactgcagg ggccaagcag 180  
gaca 184

<210> 45535  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H5

<400> 45535

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gcgggagatg gagctgtcgg cagctcgtgg attcttggtc ccgtgggtgtt tgttggtcgt 120

ctcggctgac gccgttgctg ttgatgtggc gttgttgatg tgcaggtaat gagaggaaga 180  
 aggcgaaatg gtgaagcaca tcaacgtcat ccccaacggg cactttcaga agcactggca 240  
 gaactatgtc aagacat 257

<210> 45536  
 <211> 106  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H6

<400> 45536

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 catcggccga aagcaagacc aaggcgaccg gaacagcgtg caacag 106

<210> 45537  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-029-Q1-K1-H7

<400> 45537

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 cagcaagaac atattaggaa aaggcgggtt tggattgtt ttaccggggc agcttccaga 180  
 tggaagtctt gtaaccgtca agaggctcaa ag 212

<210> 45538  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-H8

<400> 45538

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accctgaacc ggaaggcgta ggaatcatct gtggctcaca caactgcagg ggcgaagcag 180  
gaca 184

<210> 45539  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-A10

<400> 45539

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ggttgtcgag ctgcgcgtcg ccgccatgga ggagctgggt cggtatggccc agctcggcga 180  
gccgctctgg ctccctgccc ttgccgtaga cggggctacc accatcgaga ctctcaacga 240  
ggaagagtac gcccgcgggt tcttccccag gggcgttggt cccaagctgc cggagctccg 300  
gtcgaagcgt tcgcgggaag ccgtcgtggt catcatgaac cacgtcagcc tcatcgagat 360  
gctcatggac gtgaaccagt ggtcgacgt gttctcaagc atcgtgtcac 410

<210> 45540  
<211> 451  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-F9

<400> 45540

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caagagggcc cgcggttgct gtgttgattc ttttgagtc gaatggagaa acatatgctg 180  
tgcttaccga acagggttaga gttcctattg gaaaattcct gttggagctg cctgctggga 240  
tgctagatga cgaaaaagggt gattttgttg gcaccgcagt ccgtgaggtg gaagaagaga 300  
ctgggtataaa gctgaatata gaagacatgg ttgatcttac ggcactgctg gaccctgcta 360  
ctggaggctc aatgctacca tcaccggtaa ctggccaaaa cttctattca cctgngtggc 420  
tgcgacgaag agattggcct gttcctgtac a 451

<210> 45541  
 <211> 189  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-030-Q1-K1-A12  
  
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 ttctgtctct tctccaatcc gctcccgatg tctctctctc tccctctcgg ctgcctcagg 120  
 cgccgtcgct gtcgctgagc cgacagattc attcggccgg tcatggctga cgcgttgtgc 180  
 aacggcgctc 189

<210> 45542  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-030-Q1-K1-A9  
  
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 gtggtctccg accgcgtggt ggactcccc tgctgcctgg tgaccggcga gtacggttgg 180  
 accgccaaca tggagcggat catgaaagcc caggcgctga gggactccag catgtctggg 240  
 tacatgtcct ccaagaagac gatggagatc aaccccgaga acgcatcat ggaggagctc 300  
 cgcaagcgtg ccgaggctga caagaacgac aagtccgtta aggaccttgt catgctgctg 360  
 ttcgagacgg cgctgctcac ttctggcttt agcctcgacg atcccaaca 409

<210> 45543  
 <211> 95  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-D4  
  
 <400> 45543  
  
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ggtcgtacaa gtatatactt gaactggacg aagat 95

<210> 45544  
<211> 96  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-D5

<400> 45544

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ttttggctgc agcttatagc tagttctaga tcgcga 96

<210> 45545  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-D7

<400> 45545

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gctgctgtgg ctcgggacgg cggagggtgc gccgatggca ggacaaattt tgagggtgaa 120

catgatactg tactgagaa ggacctagaa cttctccttc aactttttaga taataaggaa 180

agcggggata cagcttggca gaatttgatg gaacgtacaa cctccaacat gacctacaag 240

gcctggcggc gtgagcctga ngagggacct ataatgtact gcagccgcac tatttttgaa 300

gatgctacac cttgaactgg ttagagattt cttttgggat ggccaatttc gtctaaagtg 360

ggatcccatg cttgcataac tccaaatctt ggatgagttc cctcagaatg gagcaacaat 420

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<210> 45546  
<211> 158  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-D8

<400> 45546

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aagttgtgat ttctgctcct agcaaggatg ccccatg 158

<210> 45547

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-E10

<400> 45547

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ttgctatata actggagatt acacagagca gaattacctg acttatatgg aaggtgcagg 180  
cctatctggt aagctctgcg cccagtgcac tgggcctgat tatcgaggc ttgaactaag 240  
gagcctgaat agcctacaat caggagacgg tgcagtacct tcttagtcgc aactggactt 300  
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<210> 45548

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-E11

<400> 45548

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tttctatcta gctgggtgatt acacacagca gaaataacctg gcttctatgg aaggtgcagt 180  
cctatccggg aagctttgcg cccagtccat agtgcaggat tatagcaagc tcgcactcag 240  
gagccagaaa agcctacaat caggagaagt tgccgtccca tcttagttgt agttgccttt 300  
aactatcgtc attcccactt ggtgctatct gatcttctat ttcaatggga acccaccxaa 360  
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tgttggtata ttcgatata ttttta 446



<210> 45549  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-E12  
  
 <400> 45549  
  
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 agctatcgtc atccccactg ggtgctatct tatctcctat ttcaatggga acccacccaa 360  
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<210> 45550  
 <211> 113  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 45551  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-029-Q1-K1-E4  
  
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agatgggtgc agacagagga agaagaccat gcggcagaaa cctttctgac acgcctgcac 240  
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aaggtatcaa tgcaggcctt ccttctttcc cttttcatga ttttctttct tccctggcaa 360  
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accact 426

<210> 45552  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-E5

<400> 45552

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tgcctcggag ggcaagagta cgaggagctt tgttgcaaga tactgaagaa aatgctgatg 180  
ataatactta gatattgctg atttatcagc attgattaac tctttggcat gtaaacttat 240  
tagtacattt ctgctggact tatgtcaaac ttgtggaatt aaagtacacg cagctcatgg 300  
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<210> 45553  
<211> 159  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-E6

<400> 45553

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ggagtgacta tcgaggtgcc tgagtgggat taatgaagg 159

<210> 45554  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-E7  
  
 <400> 45554  
  
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 caacaacttc caccatctct ttctggtagc tgggatgagc tgcagcgacc tggaggcacg 180  
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 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-E8  
  
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 tgggtacggt cagggttcac ggtcttttac tggttcctct cgtgttcat cagtgtgggc 180  
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<210> 45556  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-E9  
  
 <400> 45556  
  
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tttctatcta gctggtgatt acacaaagca gaaataacctg gcttctatgg aaggtgcagt 180  
 cctatccggg aagctttgcg ccaggtccat agtgcaggat tatagcaggc tcgcactcag 240  
 gagccagaaa agcctacaat caggagaagt tcccgtccca tcttagttgt agttgccttt 300  
 agctatcgtc atccccactg ggtgctatct tatctcctat ttcaatggga acccacccaa 360  
 tggatcatgtt ggagacaaca cctgttatgg tcctttgacc atctcgtggt gactgtaggt 420  
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<210> 45557

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-F1

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<210> 45558

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-F10

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 tcgtccaagg ccattgtccat catgaactcc ttcattcaacg acatcttcga gaagctggcg 360  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gttccactga ccaagcatgt tgggtgccata aaatcggcgc atgtgatcgc ctctgagaaa 240  
 gctgcagtgg tgccacgttt gtccggctaa gagttaagat gcctttcgaa tgtgaaccca 300  
 ataataatgc ggtgcgggtg cggccgggaa atcacaggcc gaaccgaact gctgaatgaa 360  
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 <213> Zea mays  
  
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 gctagaagaa tagcatttaa gcatatagaa acctttgtgc tcactttctc agatccacaa 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-F5  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-A7  
  
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 gcgtcggcga ggaggaagag gacgaggggtg aagacgagga ggagtacctg ctggggggccg 300  
 gcgccttgga tctgcagctg acggggcccg gtggcggcag caacagcagc ggccggctacg 360  
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<210> 45564

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B1

<400> 45564

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 gcgcccgtcg acgccccggc ggcgcctgct gccgacgcga agccggccaa ggccaagaag 180  
 gccaccgcgc cgaaaaagcg cgccagcccg acccaccggc cgtacgccga gatggtctcg 240  
 gatgcgatca cgtcgcttaa ggagaggacg gtgtccagca gctacgcgat tgccaagtcc 300  
 gtggaggaca agca 314

<210> 45565

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B10

<400> 45565

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 gacgtcaagg tcatatcgac ggcgaggcc tgccgcgcgc ggctcgccgc cggcattgac 180  
 aagctcgccg acgccgtcag cgtcaccctc ggccccaaag atgttcattg caggaggagaa 240

tgttgttatt gaccaagatg atgta 265

<210> 45566

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B11

<400> 45566

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tcacccaga agctgctgcc taggtcggcc ggggtcggcc ggctctggc ggtgcgggca 120

gacgtcaagg tcatatcgac gggcgaggcc tgccgacgcg ggctcgccgt cggcattgac 180

aagctcgccg acgccgtcag cgtcacccctc ggacccaaag atgttcattg cagggaggaa 240

tgttgttatt gaccaagatg atgtacctaa agcaattaat gatgggtgtca caattggcaa 300

ggctatagag cttccaaatg cacttgagca tgcaggtgcc acgctacttc aagaaatagc 360

attcaagaca aaatggcgct gttggtga 388

<210> 45567

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B12

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gtgggcaatt ccttgagaac tctggatttg accaataaca agctagttga gattccccag 180

gaaattggta cacttgcgaa catgcaaagg cttgttttgg ctggtaattt gattgaaatc 240

atcccagcta acattggata cctgcagaat cttaaaatcc tcacacttga ccgaaatagg 300

atatctatct tgcctgaaga attgggttca ctgtcaaacc ttcagcaact ttctgttctt 360

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ttgtatctga taacaaacta aaggaactt 449



<210> 45568  
<211> 119  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B3

<400> 45568

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<210> 45569  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B5

<400> 45569

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cggcgggcac tacgacggag gcagcggtag cgccgggaac gctaacgcgc tcttcggcgg 180  
cggggggctt atgccctcac agtccacggt ggtcccggag aacagcggcc tctctaaggg 240  
tcggagcgcg cagacgctgc tcccgcttac cgtgaaacag accatggacg cggcgcaaac 300  
cagcggtagc aggtctaatt tcgccatcaa cggcgttgag gtgtctacga ttagggctgg 360  
tggacgcatg ctaagtaagg ttgaccgtgt cacagatgtt gaattcactc ttgatgatgg 420  
tactggcaag atagatgtga atcgctggga aaatg 455

<210> 45570  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-B6

<400> 45570

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cgggcctgct ggagccacac caggtgtac ctgtggctcg cgctcgccgc agcagcactg 180

acgctcgccc aggctaagaa ggacctaacg gaggttaccc acaaggtcta cttcgatgtc 240  
gagattgacg gcaagcccgc aggtcggatt ggcattggggc tttttgg 287

<210> 45571  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-029-Q1-K1-B9

<400> 45571

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gacgtcaagg tcatatcgac gggcgaggcc tgccgccgcg ggctcgccgc cggcattgac 180  
aagctcgccg acgccgtcag cgtcaccctc ggccccaaag atgttcattg cagggaggaa 240  
tgtttgttatt gaccaagatg atgtacctaa agtaattaat gatgggtgtca caattgccaa 300  
ggctatagag ctcccaaagt cacttgagca tgcangtgcc acgtacttc aagaaatagc 360  
atccaagaca nataagcgt gtgggtgatgg aactacaacg gcnantgggt ttgggtcggg 420  
aatcatcat tcttgggggtg 440

<210> 45572  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-C1

<400> 45572

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atgatccaca gaaggacaag cgtttcagtg gctctgttaa gttgccccat atccttcgtc 120  
ccaagatgaa ggtgtgcatg cttggtgatg ccagcatgt tgaggaggcc aaaaaaatgg 180  
aactggact 189

<210> 45573  
<211> 251  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-C10

<400> 45573

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gcttgccaag gtaaaccctg ccacgttccg aacatgattc agatgatgtg cggaacgtgg 120

cagggtttac cttgggaatg atggaatgat gggcagtggg aaggcttggc ataggattgt 180

gtcgcattgt cagactgagt tgtatgagaa tactgagtat gcttggcact cctgtataca 240

gtatgcttgc c 251

<210> 45574

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-C12

<400> 45574

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aagtcacggt cgaacacctc agcgaagaca gcgaccacag ggagccgtac atcaacgttg 180

ccatccaatc tgtgccgcca tttctcgttt ggcgagatcc aggcggccac caagaacttc 240

gaccaagcct ctctctcgg taaaggcggc tttggaaacg tgtaccttgg agagatagac 300

agtggcacga tgggtggcgat caagcgcggg aaccgcacgt ctg 343

<210> 45575

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-C5

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ctccctcggc cgcctccgcc cgcctctttt ctgcgccag gatctcaccg ngctgcacct 240  
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 gggtccttga gatgccgggt gcgcaccaag cgcctgcctg ctacgacggc ctgagcgac 360  
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<210> 45576  
 <211> 196  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-C6

<400> 45576

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 ccaagatgaa tgtgtgcata cttggtgatg ccagagatgt tgaagaggac gtgaagaggg 180  
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<210> 45577  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 45577

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 ttgatttgag aaaggaaagc agcatacaat atgtgctatc ttctatcgac acatgtatcc 180  
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 tggatgctgt gggaggtgca aactggttgc cagcagtcgt gtaaggcgga atgagacttt 300  
 gggactgtat ggcgcacgca tgcaaaaacg tcgtaggatg ctgatgacag ctatgtgggc 360  
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 ccttgatggt nctgttctcc tcaat 445

<210> 45578  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-A6  
  
 <400> 45578  
  
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 cctcggaaat atgaagcggc ttcaattcag agagctccag gctgcaacag aaaacttcag 120  
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<210> 45579  
 <211> 162  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-D1  
  
 <400> 45579  
  
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<210> 45580  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-029-Q1-K1-D10  
  
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 tgcattatcc attgtgccac tgctatcaaa ctgcagaaat gtggaagagc tctgcgtgtc 180  
 tgttgtgcca tcgcagggca aatggaggcg gaatagtggc gatggaggaa gtcattggtgt 240  
 gcttggtggc aagagggtat cggtgaaaca tctaaaggc gtaggatga agtacattga 300  
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370

<210> 45581

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-D11

<400> 45581

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cgcgttatcc attgtggcac tacta 145

<210> 45582

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-F9

<400> 45582

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ctcctctccc acgtgctgca ccgtccgcgc tacttcgcgt acacctggag tggcgttggt 180

gcccgaggag gagtgtctgc ttctggcata caccactcc gtcgtctcaa ttgcagcgcg 240

gttgaagccg ttcccgcccc caccgaggag ggcctgcta ctcaggcaag gaagaaaaga 300

gtagtttctg gtgtacagtc aacaggatcc ggtcaccttg gaaattatct aggggcaatt 360

aagaattggg ttgcacttca ggattcatat gagacattct ttttcatcgg ggatcttcat 420

gcaattactg taccatatga ggctccactg ctttct 456

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<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G10

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caagacactt cctcatggat gtctgtgacg ctgaagctca aaggcgcgcg cgccgcgtgc 180  
tatgtgaccg gataacccca cgatgcgcct gctagcacga agcgcacctg tcgcgagacc 240  
gatgtgatgg ccgagaagaa aaagacctat tctgacgatg ag 282

<210> 45584  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G11

<400> 45584

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tgttcccagt agcggtggcg gtaacggtag cggtagtggg agcggcgga ccatcggtgg 240  
aaatggggga gaaagtggcc acaagaacaa gaagctctcc ggtggtgcca ttgccggaat 300  
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caagtcgggg ggcaccagga cgc 383

<210> 45585  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G12

<400> 45585

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ttgcaactggc taggtttaca ctaaccggc tccaacgggg ccaacaccgt tggtgacgcc 180  
tgtaccgagt agaccaggca gcaactgatg acgtagcgga tgcgtctcga ccctccatgg 240  
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ccatacacgc tccgccttgg gcgccaacc tctcatgatg ctctctgtat gcctctgtat 360  
 cactgtcagt agtgacactg actcggcctc aagatatgac cgcacttgaa gcactctactg 420  
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<210> 45586

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G2

<400> 45586

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<210> 45587

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G5

<400> 45587

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 cttgttggcg tactgattgt tgcttcattt gaaatgttga aatgaaaaca ttcttattgc 180  
 ttattccttt ttttggatgat attactgcct tctagacatg ctttattaaa gtgaaaatat 240  
 ttctcttttt gttgaacttc taagtagtgt atttggtttg ctgaggtttc ttcttttata 300  
 gtagaatttt atttttttat tttcttgtat ttgttttttc ttttcattat tttttgtac 360  
 ttgttttatt tagttttttt ttctttattt attcttatta ttttggtttt tttttttatt 420  
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<210> 45588

<211> 265

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
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tcattttctgc agaccgaaaa ggaagaacgt tgcagccctc tctcaaaatt tgttgctanc 180  
ttacaccaga gagcgcata caggatggat gctctggatg agaccagtgt gattgtgggt 240  
gccgagtcct caaccttttt acgga 265

<210> 45589  
<211> 327  
<212> DNA  
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<223> Clone ID: LIB3076-028-Q1-K1-G7

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aatagctctg ccaaattgta atcggaaatt caacaggtta gcccaatgac cgatatattg 180  
ctcgaaacga aagccatagt ttactcgaac aaaagcccta tagatgaaag ccacgcccaa 240  
gatggcaaca gctgggagac aatcagccat gaagacatgc tggggtcgag cggttcgcct 300  
gatggaagcg aaccttgagt cagcaat 327

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<211> 268  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-G9

<400> 45590

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ctagccctag ctctcccaca cccgcactgg gagatggact gcggctgcac gcaccgcacg 180  
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atcgacttgg agaatttcta ccatcagt

268

<210> 45591

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H1

<400> 45591

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agctctgcc aatgtgaatc ggaaattcaa caggtagcc caatgaccga tatattcctc 180  
gaaacgaaag ccaaagttta ctcaaacaaa agccctaaag atgaaagcga cgccgaagat 240  
ggcagcagct gggagacaat aagccatgaa gacatgcggg gttcgagcgg ttgcctgat 300  
ggaagcgaac cttcagtcag caataagata agcatttctt ggaacagcag aaatggtttc 360  
gagtacagg agaacgagaa gctggaagat gacttagctg atgcctacct ggcaagcatg 420  
aaccaacca agaagaaaga atcggccatt tc 452

<210> 45592

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H10

<400> 45592

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ttgaaacagc tccctgtttt attcattcct cagttgcatg atgtttggct tggttctgtg 180  
taacttaaaa aatcacatca tgagaagcct ttttctcttt gctataacta tattatgact 240  
tatccttaca cagatctagt attcagataa tactcatctc tgaagggtat ctaccttttg 300  
caggttctgc aagcaggatt ctctgcacca actcctatcc aagctcaatc atggccaatt 360  
gctctaaagg gtcgtgatat aatagctgtg gcgaagacag gttcaaggaa aaca 414

<210> 45593  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H11

<400> 45593

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ttgaaacagc tgcttgcttt attcattcct caattgcatg atgtttgact tggttctgtg 180  
taacttaa at gatcacatca tgagaagcct ttttctcttt gctataacta tattatgact 240  
tattccttaca cagatctagt attcagataa tactcatctc tgaagggtat ctaccttttg 300  
catgttctgc aagcaggatt ctctgcacca actgctatcc aagctcaatc atggccaatt 360  
gctctaaggg gtcgtgatat agtaactgtg gcgaagacag gttcaggaaa aacactaggc 420

<210> 45594  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H12

<400> 45594

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ttgaaacagc tccctgcttt attcattcct taattgcatg atgtttggct tgtttctgag 180  
taacttatat aatcatatca tgagaagcct ttatctcttt gctataacta tactattact 240  
tattccttaca cagatctatt at 262

<210> 45595  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H2

<400> 45595

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aattgttctc aaggactgaa ttcttggctg tcactttggc caatgtgggc aacaactggg 180  
gctattttgt cctattgtcg tggatgcctg tgtacttcaa aacggtttat aacgtcaatc 240  
tgaaacaagc agcgtgggtc agcgccatac cttgggcagt catggctatg tccggctatg 300  
ttgcaggagc ctctgcagat ttctgatca aatctgggtt ccccatagga ctagttcgga 360  
aaattatgca gtccattg 378

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<211> 167  
<212> DNA  
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<223> Clone ID: LIB3076-028-Q1-K1-H3

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tgacaggtta attcccatga acgttatatt cctttgaact taaggcc 167

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<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-H5

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ttagcccaat gaccgatata ttctcgaaa cgaaagccaa agtttactca aacaaaagcc 180  
ctaaagatga aagcgacgcc gaagatggca gcagctggga gacaataagc catgaagaca 240  
tgcgggggtc gagcggttcg cctgatggaa gcgaaccttc agtcagcaat aagataagca 300  
tttct 305

<210> 45598  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-028-Q1-K1-F7  
  
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 gcacgcctac cttcgacccc cctaaccctaa ccaaagcccg aactctcgag atcacaggac 120  
 gcggatccaa accagaggcc cctgcctgcc ctctccacc acaccacagc ctaccgtcat 180  
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 <213> Zea mays  
  
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 agggccgggct gcagttcccc gtcggccgga tcgggcgcta cctgaagaag ggccggtacg 240  
 cgcagcgcgt gggcactggc gccccgtct acctcgccgc cgtcctggag tacctcgccg 300  
 ccgaggttct ggagttggca gggaacgcgg tgaaagacaa caagaagacg cgcacatcc 360  
 cgcgccacgt gctactggcg atccgtaacg a 391

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 tgctctaacc caatccaagg aggatgccga ggagcccgca gctgagcctg agcggctgca 120  
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cggtgccagc gccaccggca ggcgcggtgc cccacggcg caccctctc ctgtcgctca 240  
gcgtcggcga ggaggaagag gacgagggtg aggacgagga ggagtacctg ctggggggccg 300  
gcgccctgga tctgcagctg acggggcccg gtggcggcag caacagcagc ggcggctacg 360  
acgacgagcg gaagaacatc cggatgatga ggaacaggga gtctgcactg cgctccagtg 420  
caaggaagag ggcctattgt gcaggagctg g 451

<210> 45601  
<211> 135  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-A11

<400> 45601

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gatctactat gatat 135

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<211> 454  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-028-Q1-K1-C4

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gtccaagcca tgactgtaat tatgcaagcc acacaaggat gaaccctagc ttgtcaagta 180  
agaaggaaaa ttctttagac gctagcctct ctacctgggtt ggtttcttct gagaactcag 240  
cattggacaa tgtgcaaagc aaatctcctt gttccatctc gtcagtaaac ctgaagcaat 300  
catcgactcc atctccacaa agatctccaa gaactaaccg cgaaggatct ccgatgttgg 360  
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ccaattcang aactactggg attcccaatt caac 454

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 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
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 gtaggttcca agccatgact gtaattatgc aagccacaca tggatgaacc ctatcttgct 180  
 aagtaagaag gaaaattctt tatactgcta gcctttttac ctggttggta ttttcttgat 240  
 aactcagcat tggacaatgt gcaaagcata tcttcttggt tcattatg 288

<210> 45604  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-028-Q1-K1-C7  
  
 <400> 45604  
  
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 cagcgcgtgg gcaccggcgc cccgtctat ctgcgcccg tgcttgagta cctcgccgcc 300  
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aggatgaacc ctatcttgtc aagtaagaag gaaaattctt tatacgctag cctctctacc 240  
tggttggttt cttctgagaa ctcagcattg gacaatgtgc aaagcatatc ttcttggtcc 300  
atctcgtcag ttaacctgaa gcaatcatcg tatccatcta cacaataatc ttcaagaact 360  
aacctctaag gatcttctat gttgggttc 389

<210> 45606

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-D12

<400> 45606

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ctccgcatag tcgaagaagg cggcgcttct gttcttgtaa aaatttgctc atcatcacgg 180  
tccaagatgg cacgtttcat gtctgcacta gcactagcat atatgtttga cggaagaatg 240  
gatgaagttg ctttggttgg agcatcctca gatagcagtt ccaagagtgt taatgttgaa 300  
ggagctagaa gaatagcatt taagcatata gaaacctttg tgctcacttt ctcagatcca 360  
caaatgttct ctatggctgc tggctcctca gcccagcag cgctgtctca tgttgctgaa 420  
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<210> 45607

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-D4

<400> 45607

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ccaagaagag ggcgagcggg cccaagtgcc ccgtcaccgg gaagaaaatc caggggatcc 180



ctcacttgag gcctgctgag tacaaaaggt ccaggttgcc taggagccgc aggactgtga 240  
accgtcctta tgggtggagta ctctctggaa ttgctgttag ggagagaatc attcgtgcct 300  
gcttggtcga ggagcagaag attgtcaaga aggtcctgaa aatacaaaaag gccaaaggaca 360  
agacagccgc aaagtaaadc tccaggaatg gggaagccta gccctgtttt gtacactgcg 420  
aaaagtaatt ttggtggatg gaaaatctag gtgc 454

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<212> DNA  
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<223> Clone ID: LIB3076-028-Q1-K1-D6

<400> 45608

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gtttttttct tttttttttt gttttgtttg ttttttattt ttattttctt tttgattttg 180  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-D7

<400> 45609

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tcagcgctgc aacgcttggt tctctgacct cggctcgagg cattttctct accccttctt 180  
accctgaaaa agcaagggtca ccttgtgtcc ttaaacttat taccatct 228

<210> 45610  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-D8

<400> 45610

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atttcatgta atataaacac tgtctataat attttcaatc ctttttatga tcaacaatat 180

atccatctca aatatggaag ctaaggcaaa ggaatttaat gaggtcatac aagaacagta 240

ttatccttgg ttgcacaat acatgggtcat gaaaaggga agcattgaac caaatttcca 300

tgatttgat ctgaagttct ttgataaagt aaactcaaaa tccttgaaca aggaaatact 360

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ttgcttcac agtagaagag agcgagccga ggatggcgct accgaatcct tatgatgccg 180

ccctgctatg tgctggcgg 199

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<211> 204

<212> DNA

<213> Zea mays

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cgctgtggc acgccctcgt acgt 204

<210> 45613

<211> 348  
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 <213> Zea mays  
  
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 gggcagcctt cagccaccg acaccacccc cgccaagacc cgccgcaggg ccccgcgctg 300  
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<210> 45614  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 45614  
  
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 caatgaagct ggagattctg gtggatatag gggacggnga agaggaggaa gggggcaata 360  
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<210> 45615  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
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<400> 45615

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tttctacttt taggctctag tgcccaatca aactttatct ggctctttaa tcttctctta 180

ggcttatggg aagaacttga acatgtgttc ttttttcttt ttaagtttgg tgttaattgc 240

ttttccaaga gaaaaaaga tagttgtatt gcgctttagt ctttaataat caaatgtggc 300

aggttcatgt cagcctgttc tatttaccac catgatgcag cacatgtgat tcaacataga 360

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<210> 45616

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-028-Q1-K1-F1

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aggtgttcat tgcgatgaat cgactttgtc gacctcatgt atagcttatc tatacagata 180

tatctttgtt gtttatcttg aatgtgtgca acgtagatga tcaatctcgg gctactttgt 240

ttttagattt aacatcaatg cactttatat cagcttggtt gttgaagaaa gaaaacagat 300

gatggtgaaa aggataatct aactaatcca agtaatccaa tgcacatcat gaagctnttg 360

gttggtttaac tttttggcaa aatttcattg atgctagaga agaaggcatc ggcttgagct 420

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<210> 45617

<211> 235

<212> DNA

<213> Zea mays

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ctcctctcgc acgtactgca ccgtccgccg aacttcgcgt acacctggag tggctttgct 180  
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<210> 45618

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-F11

<400> 45618

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gcccgaggcg gactgctcgc ttctggcatc caccactaa gtcgtctcaa tagcagcgcg 240  
gttgaagcct ttccaggccc caccgaggat gcgcctgctc ctcaagccag gaagagaaga 300  
ctaatttctg gtgtacagcc aacaagatcc ggtcacctta gaaattatct aggggcaaat 360  
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<210> 45619

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-C3

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gcagcgcgtg ggcaccggcg ccccgctcta tctcgccgcc gtgcttgagt acctcgccgc 300

cgagggtgctg gagctggccg ggaacgcggc gaaggacaac aagaagacgc gcacgcgtccc 360  
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<210> 45620

<211> 390

<212> DNA

<213> Zea mays

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<400> 45620

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gaccacgtgc acttgctctg gcagcggctg cagcggaggc ggaacggctc gtgcgcctcg 180  
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aatagcagcg cggttgagac aagcaaaagc tctatcgcg aggcggtgc tccttagggc 300  
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<210> 45621

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H4

<400> 45621

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accttttgaa ccataatttg gttttccaaa gg 152

<210> 45622

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H5

<400> 45622

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ttgaacatgt ttcgcagctc ccatcgaagc cattctgctt cacgcagaga taccaggacg 180  
taaagaaagt ccttgcagag acgttctttg gtcctccgga tgttggtgtg tatagtccat 240  
ccgtacaaaa tacgctatac ctcatggcca aggaagtcct tacaaggttt ttcccagata 300  
tatcgtcagt ccagcttaga atgccgaacc ttcactttct gcctgtcaac ttggggacca 360  
aagaagctcc gctggtgaag tttgctgatg atgtgtacct gccgacggac gaaccacacg 420  
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<210> 45623

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H6

<400> 45623

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tcctttgata gtattaggaa cattcctaaa actgtcgggtg tatgacagac ctatagatag 180  
gcatgaaagc tcattggctg aactatatgg gtttgtgatt aagattgtgt gcttaatcga 240  
tgctaaagca tatagacgct caatatgttc cgatgacaca cgatta 286

<210> 45624

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H7

<400> 45624

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cctttcatac tatttggaac attcctaaaa ctgtctgtgt atgacagacg atatctatac 180  
gtctaaacct cactggatga actatatggc tacctcatgg tgatgggtta cttcatctat 240

gccaaactcat ttagatctac tgatatgact caattacaca t 281

<210> 45625

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H9

<400> 45625

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gcagcctgca cctcggggac gcctgctcgg agggatggag tgccacgccc tacagtgatt 120

tctccccgcg tccgatcccc ggcgcatgac cgggtcggct ggccatgca tcgcagcagg 180

agttgtcgtc gattgcccct gcctgcccc a gttaatcccg cccggtcgca atccagcatt 240

agaggcgccg atctcctgcc ccgtcctgcc ctgtggatta tcgacagcgg cgccggatac 300

cacggaagag aaggaagaca aggaaggggc cgaaactaac ttgcttgtgc cggggcaagg 360

acgagatcga gggcagccga gccggtaccc gaaactctag gcgaggttcc cacaatagaa 420

gtatacccaa tggatcgtgg agggtc 446

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<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-A1

<400> 45626

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tgtccgatgg ggacgtttgc gaatgacgtg ttgtccagca ccgtaaacta ggtcgcggta 120

tcgaccctgg gtggatgaac ggtcgtctgag cgcgatcagc gccgtcgtgc cgacacctgc 180

tacgaccac agactctggc tgattgactt ggattgcac attgaactcc tgtttg 236

<210> 45627

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-A11



<400> 45627

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tgccgacgag cccgcagctg agcctgagcg gctgcagctc tctctgctcc ctgtccagca 180  
ccagtacgag ccgcgacagc gccgccctga atgcg 215

<210> 45628

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-A12

<400> 45628

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tggagaagaa gggcgagggg tgaggagggtg tggagatgat tttctatggc ttgttttttt 180  
taaatttatt tatttttgta tgttattatt tttgtttttt aatttatatt tttgtgttat 240  
tgtttgtttt ttttatatta tttttttttt ttattttgag ttgttttgat ttgtttattg 300  
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<210> 45629

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-028-Q1-K1-A3

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tcgaccctgg gtggatgaac ggccgcgagc gcgatcagcg ccgcccgtgcc gacacctgct 180  
acgaccacac gacgctggcg gattgacgtg gattgcatca ttgaactcct gggttgaaaa 240  
aggagaaaag ggcgcgtttg agcatgcggc gcacgtgtcg cgccgaccgg cggcgcgggc 300  
tagaacatcg tctcgatgcc cgcatagaca ccggtttggc cgtgaccgcg cgccgggttc 360

gtgccccagc cggcggttct cggccccagc cccgggtctt gcggattgac gccgaaattg 420  
gcattggcgc tgntgaacac atgcgccgcc atgctgtaca ggaacg 466

<210> 45630  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-A5

<400> 45630

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tcgaccctgg gtggatgaac ggccgcgagc gcgatcagcg ccgccgtgcc gacacctgct 180  
actaccaca gacgctggcg gattgacgtg gattgcatca ttgaactcct ggttgaaaaa 240  
aggagaaaag ggcgcgtttg agcatgcggc gcacgtgtcg cgccgaccgg ctgcgcgggc 300  
tagaacatcg tctcgatgcc cgcatagaca ccggtttggc cgtgaccggg cgccgggttc 360  
gtgcc 365

<210> 45631  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-A7

<400> 45631

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ccgtagacta ggtctcggca tcgaccctgt gtggatgaac ggccgatagc gcgatcagcg 180  
ccgacatgcc gacacctgct acgaccaca gacgctggcg gattgacgtg gattgcatca 240  
ttgaactgct ggttcgaaaa aggagaaaag ggcgcgtttg agcatgcgga gcacgtgtcg 300  
cgccgaccgg cggcgcgggc tagaacatcg actcgatgcc cgcatagaca ccggtttggc 360  
cgtgaccggg cgccgggttc gtgcccc 387

<210> 45632  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-028-Q1-K1-A8  
  
 <400> 45632  
  
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 tccccacgcc tcccaccgcg cgatgcgccc ggtctgccgc ggctggcgga gcgcgcgcgt 240  
 cgtgccggcc ttcgcgtctt cgcgcgccga gtctggcgcc aacgatgacc tcgtgtacct 300  
 tatgcagttc gggaacc 317

<210> 45633  
 <211> 165  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-028-Q1-K1-A9  
  
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 gcagctctct tttctccctg tccagcacca gtactagcca ggaca 165

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 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-028-Q1-K1-B1  
  
 <400> 45634  
  
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 gcaagccttg cgaaatccat acgcactctt gcaaatatgg aagacccaat caaccagata 180  
 ctcaaaaagaa cagaggttgc tgaagactta gtgcttgaaa aaacatcttg ccctctgggt 240

gtgctgttga ttgtttttga gtccaggcct gatgccttag tccagattgc gtcttttagca 300  
gttcgaagtg gcaatg 316

<210> 45635  
<211> 281  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-B11

<400> 45635

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gacgtcaagg tcatatcgac gggcgaggcc tgccgccgcg ggctcgccgc cggcattgac 180  
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<210> 45636  
<211> 128  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-B2

<400> 45636

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ggagatgctt gatatcatat atgcttggtt gatagattga ctttgattcc agaatatgat 120  
agcttgcc 128

<210> 45637  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 45637

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cgtcgcatta ttccgcgcca cgtgcttctg gcgatccgga acgacgagga gcttgggaag 120  
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 ctgcccaga agacggcgga gaaggcgctc agtggcgagg gcaaggaggc aaagtcgccc 240  
 aagaaggccg ccaagtcccc taagaaggca tagactgact gtccggagtg atcctttgat 300  
 gtttagcagt accttgttac cagtatgcgg tgatgcgtan gctgcagatg ggacgaatgt 360  
 gcttgtatgt gtatgtgtcc tgctgcaagt tgtcctttgc tatttagaat ggaagaagaa 420  
 atgccttggt tc 432

<210> 45638  
 <211> 266  
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 <213> Zea mays  
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 gccttgcgaa atccatacgc actcttgcaa atatggaaga cccaatcaac cagataactca 180  
 aaagaacaga ggttgctgaa aacttagtgc ttgaaaaaac atcttgcct ctgggtgtgc 240  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gacgtcaagg acatatcgac gggcgaggcc tgccgccgcg ggctcgccgc cggcattgac 180  
 aagctcgccg acgccgacag cgtcaccctc ggccccaaag atgttcattg caggggagga 240

<210> 45640  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-C1

<400> 45640

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ggggggcggct gggcgcaagg ctggcggccc caggaagaag tcggtgtcgc ggtccgacaa 180
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gcagcgcgtg ggcaccggcg cccccgtcta tctcgccgcc gggcttgagt acctcgccgt 300
cgaagtgctg gaa 313
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<210> 45641  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-C12

<400> 45641

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cgttgccatg caatctgtgc cgtcatttat cgttaggcga gatccatgct ggctccaata 240
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tatacagtgg cacgatggtg gcgatcaatc gcgggaaccc gacgtcttaa caaggcgttc 360
actagtttca gactgagatc gatatgc 387
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-E2

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 gctgaatgcg caaaaagcta aggatagcag tcaacttaat gcaaataata aatcagtaca 180  
 aaagatgaat cgacctatga aaattgagtc cgatgggaat ttggatccaa agaaaggtgg 240  
 cactggcttg gattctacta agacaacagg acctacaagt gttaagcact ggggggatga 300  
 ctgggatata gtcggtctta ctggggcaga gctattaagt gctagcgaaa agcttctatg 360  
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<210> 45643

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-E4

<400> 45643

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 ccatgtggtc tctggaatat aattcccat taccatatat aactttgttc ccctttctag 180  
 caggtaaca gttttggaca ctcagcttcc tgttaaaca gcatTTaaaa taatgcatga 240  
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<210> 45644

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-E6

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 aaa 183

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<223> Clone ID: LIB3076-027-Q1-K1-E7

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gatcttacc tcatcttatg cacaacagat cagcagctaa atgtaatcac acaggttcaa 180  
taa 183

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<211> 174  
<212> DNA  
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<223> Clone ID: LIB3076-027-Q1-K1-E8

<400> 45646

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tgctctgggt cccctttggg attaccgtca aggaaccatt acaggcattc tcac 174

<210> 45647  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-F11

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agaatcattt ctcatcattc tctatatcac aattactttt catcgttacc ttctccaaca 240  
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346

<210> 45648

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-F9

<400> 45648

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cgtatgatcc gaaagcaaga atcagtgtct agcaggctct agagcacagg tacttttcat 240

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ggaataacaa gatgccgat ctgaacctgc agcatggccc tctggtgtct tctccgcaa 360

gaaagttacg tagggtgata gcgcatgaat ggatggaaag tatgcacaga gcagattaag 420

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<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-G11

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cgtgctgtgt ttgttgatca atccaagtat caaacggacc tactatgttc atgtgaactt 300

cctcaagtgc tagttaaaaa gttttcatgc ttctgtcatg agattatgat cctagtagca 360

tccttagcac acttgaaacg ttgactcgtg tcttagtgct gtttgtgtta gtccatatgt 420

gaacaatgat tcatgttggg acatgctagc taacaccaga tgattc 466

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 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-027-Q1-K1-G12  
  
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<210> 45651  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gtgctccgcg acaacatcca aggaatcacg aagccggcga tccggaggct tgcgaggagg 180  
 ggcggcgtga agcgcattct cgggctcatc tacgangaga cccgcggcgt gctcaagatc 240  
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<210> 45652  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-G5

<400> 45652

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gtgaatctga cactgtactg gagatctggc aaaagaagct gcgcacgttc tggtctctaga 120  
cttcattgaa agtgtgatta agaacaacca aagcataaat gggcatcaca agaacataac 180  
cttcatgtgt gccgatgtga catctaacga cttgaagatt gaagataact ctgttgatct 240  
gatattttca aactggctat taatgtatct ttcagatgac gaggtccaaa aaagcttgtg 300  
gcgaaaatgg ttaaatgggt aaaggtctga agccatattt tctttagaga atcatgtatt 360  
caccaatctg gagattccaa aaggaatgtg aaccaaacac actatcgaga accaaggttt 420  
tataccaagg tatttaa 437

<210> 45653

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-G8

<400> 45653

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gccagctcga cgccgcggac gccggcaccg gcacggagaa ctacaccgcc agcgacgccg 120  
ccgtgtactg gggccccttg cagagggccc gggccacctg gtacggccag cccaacggcg 180  
ccggccccga cgacaacggt ggcgcgtgcg gattcaagca caccaaccag tacccttca 240  
tgtccatggg ctctgcggc aaccagccat tgttcaagga cggcaagggg agctgcggct 300  
cctgctacaa gattcgggtg aggaaggacc cgtctgctc cgggcggacg gagacggtga 360  
tcataccga catgaactac taccgggtgt ccaagtacca cttegacctc agcggcactg 420  
cgttcggcag gct 433

<210> 45654

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-G9

<400> 45654

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gtccgctcgc tctcctcctt ggcagccgca gctggctcgc gcggcggcgg tcttggcagc 120

ggcgtctgtg ctgctggcgg cggggggccgg gacggcgctc gcggcggtga gctgcggcga 180

ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg gcgtcgccctc 240

cgcggcgctgc tgcagcgggg tgcgctcgtt caacagccgc gcgtcgtcgg cggcggaccg 300

gcagggcacc tgcaactgcc tcaagagcat gacggggccgg ctcggcggcg gcgtcagcat 360

ggccaacgcc gtcaacatcc ccggcaagtg cggcgtctcc gtcggcgctgc ccatcagccc 420

<210> 45655

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-027-Q1-K1-H1

<400> 45655

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agaatagcag caacctaata ccttaggttc ccagctttac acgggcaactg caaatcaaca 120

gtatccttct ggaccatctg cttcttatcc aagcggacct ccaacaacat ttcatcagcc 180

tgtatcacct gttcaatata agcctgttgc tccaccagta tcttcttttg gtccgagcgc 240

tcttgtacca gcaacagtcc ctaaccagat gtttcccat tctgctgctg ctaaaaactc 300

aacttcaagg ttcatgccat cgaacaatca aagctttgct ccgaggccag gtctaagtcc 360

cgcacagccc tcaagtccaa cacagggtga agcacagcca gctnctcctt gcaccgcccc 420

gactgtgcag acagctgata cgac 444

<210> 45656

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-E12

<400> 45656

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gggcgcgagg gggcggtac aggagaagag ggggtatgga gcccgccgag cgaatcgagt 120  
 ccgggacggc gctggggaag cggccgagga gcagggcgct gccgcggacg cccagcatgg 180  
 tgacggtgcc gtcggcgcg aatcaggggc gccaggagcg gcgcgccgtc tcgctgccgg 240  
 ctgccggcac tgggacggga gccgctgccg ccatgccggt gggttactgt tactactacg 300  
 gcggctcatt cgccgcggtg gagactgcgg ccttcttgaa ggcgtgcggc cgatgcaccc 360  
 gtcgtctcgg gcccgccac gacaccttca tctacagggg cgaagtggcg ttctgcagcc 420  
 aggagtgcgg ggagaagcgg atccagtacg acgagcgcat gga 463

<210> 45657

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H10

<400> 45657

aataacctct tccgacgcac tctatcttac acacctctc tccacctcac taacactatc 60

tactacctct atctcttcta ttata 85

<210> 45658

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H12

<400> 45658

cccactcgac ctaaccacaca actcaaccct acaacatccc ttttccactt tacacctcca 60

caattaaacc agacatccgt aaaattttaa acgccctccc acctctcaaa atcaccacac 120

tcat 124

<210> 45659

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-H2

<400> 45659

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 aaaatttccc atccatctat tacatccata tcaatctcac caaccttcac tacaacttgt 120  
 aatacattct tattcaatca caacaactat taccctttca ttacattaa cttctactcc 180  
 aactatccat tatttcaata cttcaataaa cactacttct cttcctacta tattcacttc 240  
 atcaattacc cataatactc ctatcttact tacacaatta aca 283

<210> 45660

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-B5

<400> 45660

gacccacgcg tgcactcata cccactaca ctaaccacac taccagtttc cgttacacga 60  
 acctaccgaa acactgttga gatgactgca ttgcactagc cgcgggcccat acaaaacatc 120  
 ctccccctca tcccctctc catccccaac tcttcaccac catcaaccgt cctacaaatc 180  
 tatctactta tcttattgaa taaaccacga aataaatacc cttgaatata ttcatgcctt 240  
 tcttttcaaa atattctact tctacccttc aaacatcttc atcatattca tctttt 296

<210> 45661

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-B8

<400> 45661

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 catagtgcga tgtcatgggt caatggcggg atacagctgt acagtcggaa tggttaatgg 120  
 caggcatgca tatataccat ttcatagggt aacatctaca aggaacaagg tgaggataac 180  
 tgacaggatg tgggcgaggc tgctgtcttc aaccaaccaa ccgagtttcc tgagccagaa 240  
 ggacatcgac gcggccagag aagccgacaa ggcggccaac cgcatagaaga gcagagagga 300  
 cgtttcgaag aagcaatcta caccagtgtt ggcaaagtgt gagaaatagt gtgcttttga 360  
 cggttctttg ttgtatgcag tagctgctgc aagctggctg agatcagtag gccaaaactg 420

ctaggctcgat gagttttact tccaattgca tg 452

<210> 45662  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-B9

<400> 45662

tagccagcac cccagggtgc tttataaatt ttaattaact tcaatctaac tggaccaacg 60  
ccaattttta aaggcagctg gatctacata actacaccat gctttactag atgatcatca 120  
accacaactt acatactaata catgcaactc attattacat tccctcagct caatacaact 180  
cactgatctt cttatacaat ctatctttca aaactatata ctaccggacc taatcatcta 240  
ctattcatat tcccattaca actaatc 267

<210> 45663  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-C10

<400> 45663

gaccgcactc gtgcggtgga actatggaag ctcttaaatgt tcgctttatc agatacacct 60  
gttgtgactt tctgggattt ttgtataatg gattctggaa attgcacttt tttcactgga 120  
aagtgcgagg catcaccata tgatgatata agacattggt ccaagttccc atcatttact 180  
cctcttctgc ctcatattga gacacatggt ggcaagtctc tggacttttag caactatcct 240  
tatatatatta tgagatggaa agagcaatat tttctcaact ttggagtcta ctgtggctta 300  
accatcactg gattctacta catagctttt tcttgtaact atggctccat taatggattt 360  
tattatgatc caaatagcaa accatttcat aagcttttaa ctttaagagta ctcaatgaga 420  
aaaaattcca gattcacctt ttcattctta caacttt 457

<210> 45664  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-027-Q1-K1-C2

<400> 45664

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ttacaacca accattatth taaaaaaccc tccaattaca ttatccatcc cctcaaattcc 180  
attgccattc ttttaacttt taaaacacac ccaccctttt aatttattta taacattgtc 240  
attccaaaac cccaaccca tattcatata tattttattta aatatatatt tcaccgataa 300  
actttcaaag ccacacacca agtccaaatt ccttcaaat cttttattcc ctaaaccctt 360  
cttttgtaaa aaacttacct cattctttt 389

<210> 45665  
<211> 360  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-027-Q1-K1-C3

<400> 45665

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ccttatcttt gttgttgata gcaatgacag agatcgtgtt gttgaagcan aggatgagct 120  
ccacaggatg ctgaacgagg atgaattgag ggatgctgtc ttgctcgttt tcgcaaacia 180  
gcaagatcta ccaaattgaa tgaacgctgc tgagatcacc gataagcttg gtctccattc 240  
cctgcgcaa cgccactggg atatccagag cacttgtgct accacanggn nagaaagttt 300  
gtacgagggt cttgattggc tctncaacia cattgcanac aaggcctgaa tggacaattc 360

<210> 45666  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-C4

<400> 45666

gctttcaaaa cttttttggc cttcaaatg tggtctacgc ataataagt caagattcca 60



gtaggcgtat attaggagag gagtgcgcat cttgattcaa tccatgtcaa gtcagaggct 120  
gattccagat tatcccatgc aagtataatt agatgggtact gtcttgctcg tttcgcatac 180  
aatcacgata taccaaatgc aatgaacgct gctgagatca ccgatatgct tggctctgcat 240  
tccattctcc aactccactg gtatatccag agcacttgct ctaccacaaa attagaaggt 300  
ttgtacgatg gtcttgattg gctctccaac aacatttgct acaatgcctg aatggacaat 360  
tctgctgttt cacggaacac atcttcacat ggcgagtcac ggtcattt 408

<210> 45667

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-C5

<400> 45667

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accagtgcc gtatcttttg tgctgatagc agggacagag atcgtgttgt tgaagcaaac 120  
gatgagctcc acaggatgct gaacgaggat gaattgaggg atgctgtctt gctcgttttc 180  
gcaaacaagc aagatctacc aaatgcaatg aacgctgctg agatcaccta taagcttggt 240  
ctccattccc tgcgccaacg ccaactggat atccagagca cttgtgctac cacaggaaat 300  
taatgtttgt acgaaggctc tgattggctc tacaacaaca tt 342

<210> 45668

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-C7

<400> 45668

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gaagcacaag gacacaaaca gcaaacaatg acttgtgttt ctgggggtgac cagaatgcta 120  
tgtacggcaa tccaagtgc caacaacagg gtttcaactt tggacaaaac ccatcaagtt 180  
ggttgaacca gccatttccc caggttgaac agccacgagt ggtcaggcct catgcaacgg 240  
ttgctccatt tgatctggag aagactagag aaggaagtgg cttcaagaaa atttttgggt 300

tccaagttga tacaaccagt ccatctcctg tccaattgag ctctccattg cccgctatcc 360  
aggagcatgt gttacaaaact cgaccatcgg caccggtgaa tgaattgcaa cctgtgcaaa 420  
ttgagtgcctt g 431

<210> 45669  
<211> 389  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-027-Q1-K1-C8  
<400> 45669

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acagtgaaat gtatcacttg gacagagaca gcagacaatg acttgtgttt ctgggggtgac 120  
cagaatgcta tgtacggcaa tccaagtgac caacaacagg gtttcaactt tgtacaaatc 180  
ccatcaagtt ggttgaacca gccatttccc cagggtgaac agccactagt ggtcatgcct 240  
catgcaacgg ttgctccatt tgatctggat aagactagat aaggaagtgg cttcaaaaga 300  
tttttgggtt ccaagtttat acaaccagtc catctcctgt ccaattgagc tctccattgc 360  
ccgctatcca tgatcatgtg ttacaaact 389

<210> 45670  
<211> 308  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-027-Q1-K1-C9  
<400> 45670

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actataaaat ttactcatc accatattat tatataacac attgttccaa gttcccatca 120  
ttactcctc ttcttaatca tattgatata tataattcaa atctctatac ttatcaact 180  
atccttatat atttattata tttaaatac aatattttat caactttcta ttcaactttt 240  
ctttaaccat cacttctttc tactacttct tcttctctta taactataac tccattaatt 300  
aattttat 308

<210> 45671  
<211> 410  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-027-Q1-K1-D1

<400> 45671

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cgtgcaggac ctgctgctct ctactctatt cggcgactga tgacgaacca gagcgagcct 120  
aagctattat cactggaagg gtggagggtcc acgaagacca gcgcggcggt ccagaacacc 180  
tctagtaagg tgcaaagttg atgtgggcgt aatgtatctt tctaagttat tgtaagccgg 240  
tctcttgtct tcacaactga cgatctgtgt gtggtacgct acgcacgcaa gtcccgcgggt 300  
tgtgcgtgta cgtctgaact ctggagcatt ggtttgttgt acccaaaaaa aaagccgnta 360  
tccaagaaca tgtgttacaa aactgaccat cggcaccggt gaatgaattg 410

<210> 45672  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-D11

<400> 45672

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gtgaaggcga acaggaaata cggacactgc atcgtcttat tgcatagggt gaatcataga 120  
gaaactacca ccaaagggtc ctacaaattc ttgatcaact tgagagagag atggtatctg 180  
agcgccaaag aattgaaggg gcacctcctc cgggtggtga gagttccatg ccttcaccgc 240  
ctgcatatga agaagtcaat ggtatattca tgaggaatac tgtcgcagag ttggtcgaga 300  
ccgtggagta tttcctgggt gaggcaatcc aatcatatcg agcatagagc gacactgagc 360  
tcaacctttc agctggtgac tacatagtgg tccgaaagggt gtcgaacaat gga 413

<210> 45673  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-D3

<400> 45673

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gcctgacatg gtgtatcttc ctgattatgt tgaataccaa tatgttgctg caccaccgct 120  
acgtacattg cttccgatgg ccagcgatga tgctttggat cttttgtcaa gaatgcttac 180  
gtatgatccg aaagcaagaa tcagtgtcga gcaggctcta gagcacaggc acttttcatc 240  
gttacctgct ccaacaagac catcacagct tctaaggcca cggtggaaag ggaaagatca 300  
aggaataaac aagatgcccg atctgaacct gcagcatggc cctctggtgc tctcttcg 358

<210> 45674

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-D7

<400> 45674

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tgagattggt tatcaacctg attatgccaa ataccaatat gttacttcac cacctctact 120  
cacattgctt cctatttcca actaatatac ttcttatctt atatcaataa tacttactta 180

<210> 45675

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-D9

<400> 45675

cccactcgtg ctctatgtc ctgcgcagcc ccttcgccgt tctactagca ctcttcatg 60  
tcctttgtct tatccgtact ttgtttaact tatgtataca gaggttttg 109

<210> 45676

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-027-Q1-K1-E11

<400> 45676

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gagtaacagg gctctagaac ctagcagagg cccgcgccgc cgccgccaac cgcgacgagg 120  
aaggaagcag gaacgcgatg ccgaagtcga agcgcaaccg ccagtgacc ttatcgaaga 180  
ccaagaagaa gccaggttta gagcgcaagg gcaaagtagt cgccgagata aaagatgctg 240  
tcgacaaata cagcagcgcc tatgttttta cctacgataa catgaggaat cagaagctca 300  
aggacctcag ggagcagctc aagtcttcta gcatgatttt tctcgctgga aagaaggtta 360  
tgcagatagc gctggggcgt tcgcctgctg atgaagctaa aacaggcctn cacaaac 417

<210> 45677

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G6

<400> 45677

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ttcggtcggt ccagcggtc atcgtctctc cgcagcgcg cgccagagc cgctcgctg 120  
gcgggaccgg gaccggctcc gctgccgagg cggatgcca cctctgcccc ccgtgtactc 180  
ctaaggtcgt cgggtgaaat gagcagcgtg tgtctggagt cttgatgcc catgcacagc 240  
gccactgctt cggcgctcat gacatcgctt ctcgccgacc cggcttgcaa gggattctgt 300  
tggctatcag aaggtaagc tgaaactaga tgaactttat gggactcaa aggtgaacaa 360  
tttttataga tcccaccaat aatgactggg gatagctaga ttcca 405

<210> 45678

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G7

<400> 45678

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gcaaggcttt gcaagtggaa gtcttgacaa agatgctcag tcagtgcgta tgtttggtgc 120

tgatggtggt gaacttctca tggctcagag ctactctaag aacatgggat tgtatggaga 180  
gtgtggttggc gctttgagca ttgtatgtaa aagtgccgat gtaa 224

<210> 45679

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G8

<400> 45679

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acgggactgg aagaacaaca gaggcgtaaa gcagtttggc ggtaggaagc ggggtcggca 180  
cttctactgc cgttacaggg actgcaataa agctgataaa gtgtagatgc tggatataca 240  
cagaatcacc atatataatg aggagaacat tat 273

<210> 45680

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G9

<400> 45680

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gaagttcctc aagcccggca gggccgtaat cctcctgcag ggccggttcg ccggcagaaa 120  
gccggtaatc tgccccttgt tcaagaaggc aaccgcgaac cgcccttacg gccactgctt 180  
cgtggccggc ctggccagta cccaagaag gtggtccgca aggacttggc caagaagaca 240  
cggaagaagt cgcgcgttaa gtgcttcac cagctcgtca acttcaccca cctcatgccc 300  
accgctaca ccctcgacgt cgac 324

<210> 45681

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-H1

<400> 45681

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cggctgcggt gcagttgccg acttgctgct gtggcgaccg aggaatgcct cggcggcagc 180

cgtggtgggc gccaccacgg tctggttcgt cttccagcgc gcggagtaca gctggccctc 240

cgccctctgc aacgccctgc tcgtac 266

<210> 45682

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-H10

<400> 45682

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aatgttctac gttgttggcc tgctcataat taccacctct gccgtcatat cgtccctacg 120

gcctgcctcg tgtgaaggcg gttcatgtcc acctgcaaca gggtttcagt attttgtgct 180

ctttggttca ttgtacctaa tctccattgg tacggggggc gtcaagtcag ttttacttcc 240

tttgaagca aatcattcca ttgatccaac ccctaataaa gttaaagcaa gcaactggtc 300

ttcagatggt tcttcatggc tgtcaacctt ggagtgttca tattccgcac tgttcttggc 360

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<210> 45683

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-H3

<400> 45683

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tgctgtcaag gctctgttca tgagcacgat gccaaaaaag gattcggcgg tccatacgcc 180

gtccttagac aagatcaagg tga 203

<210> 45684  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-H5  
  
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 cgtcaaggct ctgttcatga gcacgatgcc aaaaaaggat tcggcggtcc agactccgac 180  
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<210> 45685  
 <211> 234  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-H7  
  
 <400> 45685  
  
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 ggtgcttata gcgagtgaag gggtcctcat cgctcaagga cattccggtg gtgatcatgt 120  
 cgtctgagaa cgtgcctgtc ctgatcagca cgtgcttgca agatggcgcg gaggagttct 180  
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<210> 45686  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-H8  
  
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 tccctttgct tgattaagcc aacaaccatc tagatctttg agcttgtgtc tggttggaag 180  
 agacactgaa gaaatttgac cgcatacttg ttgtcatatc acactcccaa gattttctaa 240



atggagtgtg tactaacatt attcatatgc aaaacatgaa gctcaagtta tacacccgta 300  
actacgatca gtatgttcaa 320

<210> 45687  
<211> 175  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-026-Q1-K1-H9  
  
<400> 45687

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aagagtttaa cgtaaaagag ggctaataat tactacatat acccaaatac cgccactaca 120  
gactacctca tattaacgat aataatgttc acctccaaca aggtttttaa atttt 175

<210> 45688  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-027-Q1-K1-A10  
  
<400> 45688

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ccatgtatga tgcagtacca ttgctgcggg gcgttcctcc agcatcagag accctccatg 180  
tcgcggagcg aaccgatgaa ggtattgacg atgagatcta ttgacagcgg tacttattct 240  
agatgtacag cattaaccaa gtaggctcca tgatgtatat gactgtctaa ttatctgcac 300  
acctttggca taaactgtga actcaatctc atacctatgc aaaccctgct aacctacgtc 360  
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<210> 45689  
<211> 453  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 45689

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ttcccggcgg cgtgcgagtg aaggggtggg tcatccagtc ccacaaaggc cctatcctca  180
acgccgcctc tctgcaacgc tttgaagatg aacttcaaac aacacattta cctgagatgg  240
tttttggaga gaggtttctg tcaattcaac atacacaaac tggcatcaaa tttcatttta  300
atgcgcttga tgcactcaag gcatggaaga aagaggcact gccacctgtt gaggttcctg  360
ctgcagcaaa atggaagtgc agaagtaagc cttctgacca gggtataact gactacgact  420
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<210> 45690  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-A2

<400> 45690

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agtcctctat gcgagctttt tgaccacgga tgtgatgcgc ttgcgtgtgc ttttgaatcc  180
ttggcttttg gaagcacggc gatgtgtgga aaggctacct tctggttttg gttcatttca  240
gctgtcccat tttacttcgc aacctgggaa cactttttta caaatacact ttaattctt  300
cctatagtca acggaccaac tgaaggcctt atgctgatct ac                                     342

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<210> 45691  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-A3

<400> 45691

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catcaagtcc tgtatgag cctttttaac caaggatgta atcccttaca tgtgcttcta 180  
aatccattgc ttttggaagc actgcaaagt gtggaaaagc taccttctgg gtctgggtca 240  
tttcaactgt cccattttac tttgcaacct gggaacactt tttacaaat acactt 296

<210> 45692

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-027-Q1-K1-A4

<400> 45692

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agtcctctat gcgagctttt tgaccacgga tgtgatgcgc ttgcgtgtgc ttttgaatcc 180  
ttggcttttg gaagcacggc gatgtgtgga aaggctacct tctggttttg gttcatttca 240  
gctgtcccat tttacttcgc aacctngaa cactttttta caaatacacg ttttattctt 300  
cctatagtca acggaccaac tgaaggcctt atgctgatct acttggtgcca ttttttcacc 360  
tttttcacag gagccgagtg gtgggcacag gattttcaga agtcaatgcc cctgctgggt 420  
tgggttcctc ttatc 435

<210> 45693

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-A5

<400> 45693

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aagggaagaa taaaaataaa aaaaaaaaaa gggcgaccaa taaaaa 106

<210> 45694

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-A6

<400> 45694

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 ctactctaag cgacctTTct taccactgat gtgatgcact ttcatgtcct TTtaaatac 180  
 TTtactTTcc aagcactgcc aatatctgta aatgctacaa ccttattTTT acctcatttc 240  
 aactgcccc aTTtactTTcc caatctTgga acactTTTTT acaaatacac ttaattTTct 300  
 tcctatagcc aacgcaccaa cTTaaaacct tatactgatc tacttgacct attTTTTTcac 360  
 cTTTTTTTaca tgatcccaat catggTcaca acatccttag aa 402

<210> 45695  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G5

<400> 45695

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 ggcagcatcg gcagcgacct ggactggtac cgtacgacgg aaaccggctt cttcttcccg 180  
 gcgttcgtgg tgtacaacct caacaagacc accatgtaca c 221

<210> 45696  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 45696

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 tccctccttt cctccgttgg tcgccgggga cggggagcga agaagcctcc ctccctcctt 180  
 cctccggtg gttgccgggg acggggagcg aatcctccat tcctcattcc ctccggtggt 240

cgccggggac cgggatcgaa gatgttctat ggggccatgg ttgggatcc gtggctgac 300  
 gtgtcgcaga tcgtgtgcct gcagtgcctc tactacctgt cgctgggcgt cgccatggcg 360  
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 c 421

<210> 45697  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-027-Q1-K1-B10  
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 tatcatacat attctcccct gataataatg attacatatt ctgttaaaaa taatttctac 180  
 atacacatat cttcttataa atttaatttt tataatctcat aataaaactcc ttcttttcta 240  
 tataaaccaa cttacttac tcttt 265

<210> 45698  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-026-Q1-K1-C8  
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 gagcttcccg tcccggcagg ggtcgggtgat gtcgcagatc tcggagggtgg gcagcgagga 180  
 gctcgacggc ggaggcggcg gcagccccga ggcggccggc agcaacgcca gcggcgcgcc 240  
 gcgcggctac gtcggcattc cggggtagcc gatgggcggc ggcacgtgcg gcgcctggtc 300  
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<210> 45699  
 <211> 255  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-C9

<400> 45699

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agaaagtaaa catataactt caactatccg atcggcaaaa gttaaagaaa atctccatac 180  
tgatccaacg taaaaaccca tgaagcatga ctacaacgac actatattta atcaatacat 240  
actgcaacta acatc 255

<210> 45700

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-D11

<400> 45700

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ctttgaaaat gagcttgctt cataggcttc catttggttag taaatctgcg cacttttagg 120  
agaactcgag ttcgtcctag atgcaaaagt acctggctgg tattgaaaag tcaacttaaa 180  
gcttgaaggt tgactttggt tttgatatgg caatcacttg tgggtgaaga ttggcaccgc 240  
attaatttga agcttgaatc gccttaatta gaaaaat 277

<210> 45701

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-D12

<400> 45701

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cctgttcaca cttgtagcac ttcttcacgt taaaaaccag ttactatcg tgggtacacaa 180  
attttcacct gaaacaactc ctgaaaacgg ctcatcacga aatgacagcc ctcccc 236

<210> 45702  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-D4  
  
 <400> 45702  
  
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 gcgattgaga gtggccttgt gagtgtcttt gcgtagctgc tagcgcgctc tccgtatgca 180  
 ctatatatg ctggaacatg taaaggatca tgcatagctt ataccgactc tatcaccgtc 240  
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<210> 45703  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-D8  
  
 <400> 45703  
  
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 tattcccatg catgcaccat ttacagaatc atctcaacga gccc 224

<210> 45704  
 <211> 236  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-E1  
  
 <400> 45704  
  
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 attcactctg gatgtccttt agtcctagtt ttctgctttg tgcagagcta tgcatacaag 180

ttgtggatgt ctgtttgtca attgtatatc aagatcgcta gagcagttta atttac 236

<210> 45705  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-E11

<400> 45705

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cctacctcta actctgcctt acccacggtc ccacgcacgt tcacaagtct cgtcgtcgcc 180  
gcaatggaat ccgtcggatga cgggtgactac cagctgcacc gcctcaagtt cggcaagatg 240  
atctacttcg aggactccgg cggctccagc agctgaccca tccactgttg tggcagctcg 300  
cccgcgcttt cagcgactca ttagccgtct ctgctcggcc gcttcgcct 349

<210> 45706  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-E12

<400> 45706

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gccatggacc cgtgccactt cgtgcgagtg ctgttcgaca acctctcgct cagaatgcct 180  
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tgcaatatcc agct 254

<210> 45707  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-E3

<400> 45707



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 acgcctgatc ttccaagacc taccgcgcatc atgctggcac cgcccgtaag aacggcttca 180  
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<210> 45708  
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 <223> Clone ID: LIB3076-026-Q1-K1-E4  
 <400> 45708

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<210> 45709  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-026-Q1-K1-E5  
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 caaaaaaaat aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaa 264

<210> 45710  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-026-Q1-K1-E6  
 <400> 45710

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gtccaatttt cctagagcta gagctattcc aaacaaggtc caaatcaatg ctcatctcat 120  
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 gattatcggt cagctattta tcacagatcc tttta 214

<210> 45711  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-E9

<400> 45711

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 cccaagtatt catcgcgccc ttgcccggat acgagcacc accacaccag atcactgtaa 180  
 tccacgctga attgaggctg aacctggtgg catattaatc tcggatactt gttcaactgc 240  
 aaacttcaag attcattctc atgcaatcaa tggagagcct agcgcaatta aaggatgatgt 300  
 gtgaaaagct ttataattct agagactcgg atcagcgcgc gcatgcagaa agcaccctca 360  
 agtgcttatt agagaacagc cagtacattt cgcaatgcca atacatattg gacaatgcct 420  
 caactacata tg 432

<210> 45712  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-F11

<400> 45712

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 atgggaagga tcttcctga caaagggaa ttctggtgaa ggcggtagag actagagaat 180  
 cttaacgat atgcttacat ctgggctcga aatcaatga aagtgtgaac tttgtgtgcc 240  
 tgctgttaat taggatagct ctatgttggt tgtctgggtt ctcacatcct atgataacca 300  
 gttgtccatc agcccctcac aaacgtgcag ctgtgcaagt atattaatat cgtccttttc 360

tggcgctcat atatgccc aa gtaattcata aatagtagac acatatctct tacagattgt 420  
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<210> 45713  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-F7

<400> 45713

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 ccgcgatact aaagtcagga tgaacgaacc gctagagcaa cttatccaaa acaacgacga 180  
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<210> 45714  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-026-Q1-K1-F9

<400> 45714

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 aggagatgcg gatcctcatg gtcggcctcg acgccgccgg taaaaccacc atcctctaca 180  
 agctcaagct cggcgagatc gtcaccacca tccccaccat cggtttcaat gttgaaactg 240  
 ttgagtacaa gaacattagc ttcactgtct gggatgtcgg gggtaagac aagatcagac 300  
 ctctttggag gcattacttn cagaacaccc agggctcttat ttttgttgtg gacagcaatg 360  
 accgtgaccg tgttgttgaa gccagagatg agctccacag gatgctgaac gaggatgagc 420  
 tacgtgatgc tgtgc 435

<210> 45715  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-026-Q1-K1-G1

<400> 45715

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cggaggcatt ctcaagttcg gcagcagcgg cggcgacccg gacgggtacc gcacgacgga 180  
gaccggcgtc ttctccccgg cgttcgtggt gtacaacctc aacaagacca ccatgtacac 240  
cttctcatgc tgggtgaagc tgggaaggcg gtactcggct ctgatcaccg cgaggctggc 300  
gccggacaac accggcgcca ggggcatcgc caccgtgggt gccaggagcg actgctgggg 360  
cttcgtcaag ggcggattcg tncctggactg gccgacgcaa accttgggtca tcttctttca 420  
aaatgctgac aagacgcca tgaagatca 449

<210> 45716  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-C5

<400> 45716

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gggagtcaat gacaatttac tggtagctgg tgggtttcaa ggagagctga tctgtaaaca 120  
ccttgatcgg gaaggtatta gtttttgctg tcgaacaact tatgatgata atgctattac 180  
aaatgcgggt gagatattta atacctctag tggcgctggt cacttcatcg catcaaataa 240  
cgattctggt gtgagatact atgacatgga gagattccag ctattcaagc atttgcagtt 300  
tgaatggcca gtgaatcatt cttctttgaa tccttacaga aaagtcgttg ttattgtccg 360  
tgatgatcct gatggtctac ttattgat 388

<210> 45717  
<211> 197  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G11

<400> 45717

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ggggataggt gcaattcaac cgagggtatg ccctcaacat tcaatacact cactacataa 120  
tctttatcct catatactat cacgtacatt cctaacacac tctctacctt ccctacatac 180  
tctaactgat aaaacac 197

<210> 45718

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G12

<400> 45718

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gcggaatgg gacgctttac tggagatctg gcaaaagaag ctgggcacgt tctggctcta 120  
gacttcattg aaagtgtgat taacaagaac caaggcataa atgggcatca cacgaacata 180  
acctgtaagt gtgccgatgt gacatctaac gacttgaaga ttgaagataa ctctgttgat 240  
ctgatatttt caaactggct attaatgtat ctttcagatg acgaagtcca aaagcttggtg 300  
gggaaaatgg ttaaatggtt aaaggcttga agccatattt tctttacaga atcatg 356

<210> 45719

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-G4

<400> 45719

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tccggtccag cggctcatcg tctctccgca gcgcggcgcc cagagccgcc tcgctgctcg 120  
gaccgggacc ggctccgctg ccgaggcgga tgcccacctc tgccccccgt gtactcctaa 180  
ggtcgccggt ggaaatgagc agcgtgtgtc tggagtcctt gatgcccatg cacagcgcca 240  
cggcttcggc gctcatgacg tcgcttctcg ccgccccggc ttgcaaggga ttcggttggc 300  
tatcagaagg tcaagctgaa actagatgaa cttcatggga cccaaagggg gacaatttta 360

tagatccac caataatgac tgttgatggg ctagatccat cactatttca cgcgtcggaa 420  
tgga 424

<210> 45720  
<211> 455  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-026-Q1-K1-A11  
  
<400> 45720

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gccaaggca gatggcacia ttgggtcac agtctccttt gtggagagtg tgtggagtgc 120  
tgcaaagcag ttcaagtga tcaatgtggc gcttatgtca cagtcagggc aggttgactt 180  
cgaccaggac atgacagaga gggagaaaat ggattacctc cgcaagcagg aacgcgatta 240  
ccagcagcgt gtaaggggtg ccaagccctg catcttgcca gaaaatgtac gtggagaggt 300  
gctgggaatg atgaagaagc aggagaaggt gagcgccagg atgctgcaga agatcaggga 360  
ccatgtccag aaatggtacc acaacgaggg tttcgtatgc gcacaggttg ttaactatgg 420  
aaaccttaac accaatgagg ttgtctgtga cgtgg 455

<210> 45721  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-026-Q1-K1-A12  
  
<400> 45721

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ggcacaattg ggctcacagt ctcttttgtg gagagtgtgt ggagtgtgc aaagcagttc 120  
aagtgcacat atgtggcgct tatgtcacac tcagggcagg ttgacttcga ccaggacatg 180  
acagagaggg agaaaatgga ttacctccgc aagcaggaac gcgattacca gcagcgtgta 240  
aggggtgcca agccctgcat cttgccagaa aatgtacgtg gagaggtgct gggaatgatg 300  
aagaagcagg agaaggtgag cgccaggatg ctgcagaaga tcagggacca tgtccagaaa 360  
tgggtaccaca acgaggggtt cgtatgcgca caggttggtta actttggaaa ccttaacacc 420

aatgaggttg tctg

434

<210> 45722

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-A2

<400> 45722

acgatctgcc tcattctccga cctgaaattg cctaagtttt atctcctgtc aaacgctaag 60

cctgcactgg tcgatttccc caatccagtg acccagcata ccacagccac ttcagtcaag 120

gttctctctt ccattctttc tacctatacc aagttcaaa 159

<210> 45723

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-A4

<400> 45723

accacgcgta cgcccacgcg tgcgcccacg cgtccgtcca cgcgtccgcg gacgcgtggt 60

gtagaagaag gttctcgacc ccaagaaatc acaaaacatc gcgataatgc tgagggcgct 120

caatgcgacc aaggaagaag tgtgcatagc actcctagat gggcaggcag agagccttgg 180

atctgaattc ttggagatgc tgc 203

<210> 45724

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-A6

<400> 45724

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ccggagaaga gggaggaccc gcggaggaag catccagtac tggcagtgac aagaagcctc 120

caagttactc aggaagaag ggcaaaagat ccaagaggaa gcgcatggtg cagtgatcgt 180

cacagttcaa tcggatgcga tttttgccac aactggttga ttcaattgac cagttaggtg 240

cctcagttga tcacggaagc agttttggcg gtctgctgga gccctatatt tgggggtgcag 300  
 acaaatgaac agctttccgt gtcacaggta tttgctgcta agcttatgca aatggaggta 360  
 gctgaatata tgctaggcct gagggtgagt gatgga 396

<210> 45725

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-A9

<400> 45725

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 acggccgaga gggcgagccg cctgtcgcgg ggccgcgaca cgaccggcaa ccggccgagg 120  
 ggccaagcaa caggccagcg tggacgccga tcgtgccaaag cgcccagtcg cgattccgcc 180  
 ctgacctgtt taacagtacg agactctaaa agtccgccct ggtgagtgtg cttcactgct 240  
 tctccggttc ttcccctcgc actgggtccc atggaatccg atgccgagga ggcggcggcg 300  
 gcggtggacc caggcgctgg acggctgaag gggagcccgg agctgactgt ggacgcggac 360  
 atgcgggagg tggcgaagag ggccgcgtgg agcgtcagtt cttcaagga cggcaacggc 420  
 gtcgcacccc tcgcgcgacga caacctcg 448

<210> 45726

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B1

<400> 45726

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 gaccggcggc gacgatgtcg gggcgcgga agggcggaag aggtctgggc aaggcgagg 120  
 caaagcgcca ccgtaagggt ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180  
 gtaggctggc tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240  
 gcggcgctct caagatcttc ctcgagaacg tcatccgcga cgccgtcacc tacaccgagc 300  
 acgcacgcgc catgactggt accgccatgg acgtcg 336



<210> 45727  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B10

<400> 45727

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gctcaagggt gcagagaata gaatatcgct gatataattga agcaagaaga tcgtctaagg 120  
gctctgagag ctgctcactc aacgttcttc ctctccaaaa cgacacttgc agatagcatc 180  
attgcacctg tcttaattac tacaacactc cttacaccag ataaggatca gataacctgt 240  
ataaacgaaa atattaacat tgatctgcct gtcattgcaa taactcgctc aactacaatg 300  
cttttgagcg acacgggaat agacttaacc cagtggaaac aacttctaaa aaaagaatca 360  
caaccagctg atattgatag ctaagttcat catttatccg ataatcacgt attcccaaac 420  
aaagtttttg cggactgcac agcatataca a 451

<210> 45728  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B11

<400> 45728

gtttgaagcc ttggatcgaa aggaaaggga gattcttttt agtgagaaag tcaaggctgt 60  
ggaagaaaaa gtccaatcaa tgcgcaaagc tgtcatagct aatttcaaat caatgcttcg 120  
agaaagtaaa gatataactt caactagccg atgggcaaaa gttaaagaaa atttccgtag 180  
tgatccaagg taaaagcca tgaagcatga agaaaggag actatattta atgaatacat 240  
agtggaacta aaatctgctg aacaggaagc agagcaagct gccaaggcca aagtggatga 300  
gcaagccaag ttaaaggaga gggaacgtga aacacgtaaa aggaaagaaa gagaggagca 360  
ggagatggaa agagtaaaaa tgaagatacg tagaaaagag gctgtgtcat cataccaagc 420  
tttacttggt gaaatgatt 439

<210> 45729

<211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-B12  
  
 <400> 45729  
  
 cccacgcgtc cgcgagacgcg tggggctagc tctcattttt agcgagaaag tcaaggctgt 60  
 gggagaaaaa gaccaatcaa tgcacaaagc tatcataact aattacaaat caatgcttcc 120  
 ataaagtaaa atatataact ccaactagcc gatgggcaca agttaagaa aatttccgta 180  
 gtgatccaat gtacaaagcc ataaagcatg aagaaaggga gactatattt aatgaatata 240  
 tactgtaact aaaatctgct gaacaggaat cagagcaagc tgccaacgct aaagtggatt 300  
 accaagccaa gttaaaagat aggtaacgtg aaacacgtaa aatgaaagaa atagaatacc 360  
 aggacatgga acgagtaaaa at 382

<210> 45730  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-026-Q1-K1-B2  
  
 <400> 45730  
  
 ctctaattag ctaccacata aagatcttaa ttttttagagg tattttttatc ttccatagcg 60  
 ggttgaaata gaaaatcttg gcattattaa taagagcatt atacatcgaa cggacgtaaa 120  
 aagcctcgag gttaacaaat tccatttgaa ctcatctctt ccagtggata gatgagtatg 180  
 agcaaatctc aagaccaatc tattccaaca taaaagatta ccaccacca gcgctctacg 240  
 aaaagaaatg tttagaggaa tcctattaaa aacattcgcc actgtatcgc tttttttatg 300  
 agctatatta tataaggacg gaaatttcag cattagaggt ttgttaccg tccacgtgct 360  
 ctcccaaaat ctaatctgct tttcatcttt aagaataaag gaattgaaag ggaaatatgg 420  
 tctaaccttt ttctaaa 437

<210> 45731  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B5

<400> 45731

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gatgctgcgt ccctgtagaa cattcatgct atggacacaa actcaagtgg acgtgggtgtt 120  
cgacaattca aaacatacct attgcataca ttggaaaagg ttcagtttct caactttgtt 180  
ctttgcccac aataagttaa atccatcatg attgatcttg agacaagtgc ctggatgcag 240  
ttagtcttac ta 252

<210> 45732

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B6

<400> 45732

cggacgcgtg gggtaagaac gaagagcatg tgaaccttat caaggaatac cgtgcgaaga 60  
gcgaggctga actgagcaat atctgtgatg gcatcctgaa gctgcttgac tcccacctag 120  
tgccttcttc tactgctgct gaatcaaagg tcttctacct caagatgaag ggtgactatc 180  
acaggatatc tgcggaattt aagactgggtc ctgagaggaa ggaatctgct gagagcacga 240  
tgatggccta caaggctgct caagacattg cgctggctga actggcacct acccatccga 300  
taaggcttgg gcttgctctt aacttctcaa gtgtctatta tgagattct 349

<210> 45733

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B8

<400> 45733

ttaacctta tcaatgaata ccatgcgaag ggcgaatctg aactgagcaa tatctctgat 60  
ggcatcctga atctgcttga ctcccaccta gtgccttctt ctactgctgc ttaatcaaaa 120  
gtcttctacc ttaagattaa tggtgactat cataggtatc ttgctgaatt taatactgtt 180  
cctgaaatta aggaatcttc ttataactct attatttatt actttgcttc tcatgacatt 240

acccttactt atctattacc tacccatcct at

272

<210> 45734  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-B9

<400> 45734

attagcaaag gcaaacatta atgttcgagc tatagctcaa ggttgcagtg aatgcaatat 60  
ggctgatgta ttgaagcaag aagatttgtt aagggtctctg agagctgctc actcaagggt 120  
cttcctctcc aaaacgacac ttgcagttgg catcattgga cctgggtttaa ttggtagaac 180  
actccttaac cagctcaagg atcaggttgc tgctctcaag gaaaatatga acattgatct 240  
gcgtgtcatt ggaataactg gctcaagtac aatgcttttg agcgacacgg gaatagactt 300  
aaccagtgga aaacaacttc taaaaaagga agcagaacca gctgatattg atagttatgt 360  
tcatcattta tccgataatc acgtatttcc aaacaaagtt ttgggtggact gcacagcaga 420  
tacaagtgtt gcatccact at 442

<210> 45735  
<211> 128  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-C1

<400> 45735

aagagagctg atctgtaaac acctggatcg ggaaggtatt agtttttgct gtctaacaac 60  
ttattatgat aatgctatta caaatgctgt tgatatattt aatacctcta gtggcgcttt 120  
tcacttta 128

<210> 45736  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-C12

<400> 45736

cccacgcgtc cgcccacgcg tccgcccacg cgtccggggg cggcctgcac tgggagaggg 60  
 agatccgcgc gtccgccgtg ccgaggcggc cccccgggtc agccgccggg gccggaatgt 120  
 cggtgctcgt caccgggcgc gcgggcttcg tggccaccaa ctgttccttg gccttccgaa 180  
 ggcccgg 187

<210> 45737  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-A10

<400> 45737

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 gggcgaatgg tgctgggtgt ggaacttatc ctctcattcc cttgctttga agggtaaggg 120  
 gctagggcgg gccgaactgc acaacgagcg ggcgccaggc ggacgacgaa gcgacgaggc 180  
 agacactccg gagagaatgt cgtcggcact aggaagtggc ttgtactgag cctccccgtg 240  
 tcgaggtcgg attcgctcgg aaaacttggc cctgccttca gcatccgcgc cggetgcagc 300  
 gtgggtcttg acttctgact cataggacgt gcactcatcg gagctggatt ccttggttta 360  
 caattgaaga ttggagcttg aactggatgt ggaataagaa taggttcttg ttacggcttt 420  
 tgaaa 425

<210> 45738  
 <211> 201  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-026-Q1-K1-C3

<400> 45738

atcatactca agttagtacg gttgcgttca attacaattt actcgtagct ggtgggtttc 60  
 aaggagagct gatctgtaaa caccttgatc gggaatgtat tagtttttgc tttctaacaa 120  
 cttatgatga taatgctatt acaaattatg ttgaaatatt taatacctct aatggctctt 180  
 ttcacttcat tctattaaat a 201

<210> 45739

<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-025-Q1-K1-D3

<400> 45739

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ataggagtgg taagaggcaa gcttgacaaa ngaggatact catcaatatac tgggccacgc 120  
gtgattgaaa aaacgttttag tgacatgagc atcagtggtt ctggatttgg tagtggttct 180  
ggattaggtg gactgagcac tgacatggac tcatttgcca gcaagcccaa aggtcgtcca 240  
tctacagcag ctactgcacc tggtaaaggt tttggtatga aattaggcaa gacacagaag 300  
acaaatcaat tccttgagtc tttgaaagct gaaggagaag tcattttgga ggatgtacaa 360  
ccaagtgcag tttctacaag atcatctgct cttccaccaa gtgaccctgt cacagtgaac 420  
atagaagaga agctcaatg 439

<210> 45740  
<211> 366  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-025-Q1-K1-D4

<400> 45740

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tgtggcggcc tgcaactggga ggaagaaatc ttctcattcg ccgtgccan ncttcccccc 120  
ngttcatcct cctgggcccgg gatgtctgtg ctgcgtcacgg gcgcgcgtgg cttcgtgggc 180  
accactgct ccctctccct ccgcatgcgc ggcgactgcg tggctctgcgt ctacaacttc 240  
aacgcctact acgaccgctc gctgaagaag gcgcgcaggg cgctgttcgc cttccacggt 300  
gtgttcgtcg ttgagggcga catcaacgac ggtcggctcc tggccaatct tttcgatgtc 360  
ttgccc 366

<210> 45741  
<211> 262  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-E3

<400> 45741

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atcccccaac ttcaataaaa tttcctatat attaaaaacc tttcacaatt ctctcttcta 120

acttaaaaaat atttacttcc ttttaaaata tttcacttaa aactcttcaa ctcatccat 180

aaatacatcc tccctaatta cacaaaaatt catattcctt caatcaaac ctattaattc 240

actctcttta cataaaaatt cc 262

<210> 45742

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-E7

<400> 45742

taannncaca tncaccnnac atttaatact ttataataan cacaanccat taaagcgtat 60

ttattataaa aaactatccc acccccgaan aacannatct tccattttaa tttgttctac 120

tattcacctt cgaatacatt tctattatat tattccccctt acatattttt tttcattcct 180

acacatacta ccatttttcc tcaactctac atttacttaa actataatta ctattctctt 240

tttcccaatt tatacct 257

<210> 45743

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-E9

<400> 45743

caccctatta aagtaaattc cgtccgtcct accagtgtgg ccgaaactaa ttgttccatg 60

tcctccaaaa agaaaggatc tcgttccaat accataccct ttaatgaagg tgcttttccc 120

cccaatttcc tatttatagc tctaatacta tagctggaat gacctatatg accggaacca 180

cctaaacatc tatatgaccc gaacggaacc tcaacctata tgtatatgac cggaacctac 240  
 acaacctact ggacttgctt tgctacttga gcctaagcta tatgatctga accaacccta 300

<210> 45744  
 <211> 145  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-F1

<400> 45744

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 cttaaaaaaa accttaaaaa tacaacatt gattttacca acactcaaaa ctactttaaa 120  
 tccttccaaa cccccaacca aataa 145

<210> 45745  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-F12

<400> 45745

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 ccgtggcatc cccgaggagt tcggctcctt gatcatggac catctgctcc ggagcatctg 120  
 gaccgcatag gatacccagg ccaaggcctc cgcctctatc gcaagagcga gcgcggggat 180  
 gccccccacg ccaatgcagc tgcagggatc gtctctcaca ctgccccgta tgctcagcac 240  
 caagacggtc gacgaggcgt ggagaaatct cgtgcgcgac gaaccgccac atggggcgga 300  
 ccgcagctga caccatccgc accaccgcca gtcaacgctc tgggagatga ctctggagga 360  
 gttcttggtc agagcttgcg cggtaaaga g 391

<210> 45746  
 <211> 184  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-F2

<400> 45746



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gatttttttt cccctctcctt attttaaaac cttttattat ttgggagtgt ataataggag 120  
cttatgtcac ctctgcggct tccccgcgg ctgatttggt ttaaagggtt agaccaggac 180  
cctt 184

<210> 45747  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-025-Q1-K1-F5

<400> 45747

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agagcctcta gaggttccg tgtatggacc gtatactcag cgactgcga ggagggataa 120  
gggatggcc gggatcggac cgatcaggca tgactgggag cgggtcgttg tgcggaagaa 180  
ggcaccacc gccgccgcca agaaggatga gaaggccgtc aacgccgcgc gccgtgccgg 240  
tgcggagatc gataccatga agaagtacaa cgctggtacg aacaaggcgg catccagcgg 300  
tacatccctc aacaccaagc gcctcgacga cgacaccgaa aacctcgccc atgagcgagt 360  
tccaagtgat ctgaagaaga atctcatgca accagagagt gctcagattg gaga 414

<210> 45748  
<211> 157  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-F7

<400> 45748

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tgcaaagagg gattttacca agactgaaga cgacttgaaa tctctgcaga gcgtggggca 120  
aataattgga gaggttctcc gacctcttga taatgaa 157

<210> 45749  
<211> 338  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-025-Q1-K1-F8

<400> 45749

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ggaagtcgcc gagttcaagg aggccttcan cctcttcgat aaggacggcg acggttgcac 120  
cacaaccaag gagcttgga ctgtcatgcg ttcactgggt cagaacccaa cggaggctga 180  
actccaggac atgatcaatg aggtggatgc cgacggcaat ggcacgatcg acttccccga 240  
gttcctcaac ctcatggccc gcaagatgaa ggacaccgac tccgaggagg agtcaagga 300  
ggcgttcagg gtgttcgaca aggaccagaa cggcttca 338

<210> 45750  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-F9

<400> 45750

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aaacttcatt ctacaggtgg tgggggtggg ccgcggcggt gatgctgctg cggaaagacg 120  
tcaagcagtc ggccaccgtc ttccgccgca acgtgcgcca catccgcaac tggctcgagg 180  
aggagtccgc cgccgccgcc aaatctactg aacagtcttc agtgaaggag ttggagtccc 240  
aagctaccaa gaaagacgct gtgccaagg acgacaagca ttagatgatc ttacaccctg 300  
tttcttgtaa tgcgttgga gtttgaggtc caagattttg aattggctct ttaaaaaaat 360  
gtatgtg 367

<210> 45751  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-025-Q1-K1-G10

<400> 45751

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tttttttaaa ttaacatcca cccctcctc cnnncatct naaccccata ttaaaccat 120  
 accaatacct ccacctctat cacaatatct acctcctcca tccccccac tccaatccat 180  
 catcaacaat catctctcac acttccccac attctcacca cctaaactnt ctacaaatca 240  
 ttccaaaatc tcttnacta ctaaccctct catataactt acttcaactt acaccatcct 300  
 tacacaccac actcaactct cttctatatt actctataat aaatcttant caaaacttac 360  
 tctatcaaaa aaaaaccac tccttcttc 389

<210> 45752

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-G2

<400> 45752

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 aagctatcga cggaagccgt ggctcgcatg ggggccgatg cgcgccctcg gcctggcggc 120  
 ctggaacata agctgcacgt cgtggagcgc agggtcgcc agcttggttg cgtgagggg 180  
 atcgccaatt gcagctcgcg agactccgtc tggcgattcc accagaatga tcagcaagtg 240  
 ttccactggc gctgcacgga gtacaaatac gcggcggagg aggtcagcgt ctgggggagc 300  
 cctctccgca cctccagcct tctccaagag cac 333

<210> 45753

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-G4

<400> 45753

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 aagaacacat attcncatg tacaaaacat taatgaagga ctacctctt tctctccaa 120  
 ttatgatgat cgaagattgt atggtattta cgaagcttca tggaatggaa agtcctgtcc 180  
 tgaatcaaat tcatggtcac aagttatcta ggtcaatata tgctatcctg ctc 233

<210> 45754  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-G5

<400> 45754

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ttgtcttttag aatttgtatt gattgaaatc atgctttggc ttaattacgt caaacatggg 120  
caggacaagc tcctaatacc atggctgatg attaaatttc ttcacttggt acttcacctt 180  
tacaacctgt ccaatctcaa gaatccaaac ctttactctt tattatgttt gaaagttttt 240  
gtcctatttt tctatcactc ctccatatat tcattttttc gtttcttctt ttaattcttt 300  
ttatttattc tttttttatt ttt 323

<210> 45755  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-G9

<400> 45755

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ggcagtcggg gaggcacttc catggagtac tactacgctt accagcacag cagcagcagc 120  
ggcagcggct tgagctcaaa ggaaaaaagg ccgccgctga agcgggggca gctcaagcgg 180  
caaatcgtga ggaccatcag cagcctcgtg gtgccgaggg acgccgccgt cgctggcgct 240  
gctgctgccg ctgggtcgag ggagacggca gatcgcgga gcggattcgg cggaggacgg 300  
agctacaact gatgatgaat ctctcagagg aggcgtgatc agagatacga ttcgcagcgt 360  
caggtttgtg tgtacgtact acttgccgat gccgatgcaa aagcagcacg tagcgcattc 420  
gttgagcgcg tgttcttctt 440

<210> 45756  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-D2

<400> 45756

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ggtcaccgct aatgcctaag actggttgc tttcttaa at caagaaaagg ttttgtcaag 120  
atagctatac agtctggatg tccttttagtc ccagttttct gctttgggca gagctatgca 180  
tacaagtggg ggaggcctgg tggtaaattg tttatcaaga tcgctagagc agttaaattt 240  
actcctatta tcttctggga tagatttggc acaccattcc ctttcccaa acccatgcat 300  
gtggctcgtg gtaaaccaat tgaagtcaat aagattcccc atcctacaat tgacgagatt 360  
aatgaagtcc atggacagtt catcattgcc atgcgggacc tctttgagag ctgtatcatc 420  
agtgtctgaa tcacc 435

<210> 45757

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-H11

<400> 45757

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tgggccaaga acctttacat tgcttcaata tgctatggcc ggacagtgtc atgaggcttg 120  
ctcggctgca tccctagttg ggaagagcat gttctgatga gtatatattg ggaaaaaagc 180  
agcaatcttt gttgctgctc tctattaatc tctgtatgtg taggtaacc gttcaagatg 240  
aagcacctta cagtggccag agtaggagct caagaaagaa ccgagaggaa ggtggaaagc 300  
aatcggccaa taagcagacc aggagtatgt gatctggcta gtagcgggta caggcgctta 360  
tggcgtcaaa tgttttgtat cacagtatca acatgttttg cttttgcttc tctcctg 417

<210> 45758

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-A10

<400> 45758

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 tcccctacac cctgctcttc ccaaacacct ccaacaaggg caataacacc ggcgtcaccg 120  
 ccaagggcat cccaacagc atttccatct gattcaatcg agtcctggcc agcgtttcac 180  
 ccaaaaaagc agagctagcg gtgattcccg tatgtaatcc gtttcatttt ttacatgaat 240  
 gagaagcgtg gtaataaaaa ggttttagt tgcgtgcgcg ccgtgtattc cttgggtgtac 300  
 tgggtgctggc ggtaaccact tattaccagg gatcctcgta atttttcctg t 351

<210> 45759

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-A2

<400> 45759

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 ggcagatcga tataaagttc ataaaaaatg tggacaaggg ggccatttgc acaattgaac 120  
 ttgatgttca aaaggttcag caatttgcta atgccattga aaactcatat tggtttgagc 180  
 ttttcataga tgatctgcca ttgtgggggtt ttgttgggga gactgacaaa aacaatgaga 240  
 aaaagcacta cctttacact cacaagaaca ttgttggtta atacaatggt aacaggataa 300  
 ttcatgtgaa tctaacacan aagtcaccta 330

<210> 45760

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-A3

<400> 45760

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 gccagatgt ctgcgctgat aaacagcanc tcaaaataag gtatgaaacg gctatccttc 120  
 gaggaaatga caaaaatgct accgctcgag agaagcacgt atgctcaa atgtagcaaag 180  
 aactaagaga gcgaatcaag ccatactttt tgcgggcgct gaaaagtga gttgtctttg 240

atactggtgc atcagaagaa aaaacattat ccaagaaaaa tgaacttatt gtctggctga 300  
agttaacacc atgccagagg aaactatatg aagcttttct aaaat 345

<210> 45761  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-A4

<400> 45761

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gggtgggttc ttactgctga tctggtggca atttctgtt aaacttctgc ttactagcat 120  
atgtttcaat aatctttatg catggtcaaa tgtttcaatc ttatgtcctg atataatcaa 180  
gtgcatgata acccatgtca agttcatcat gaaatatggg accattgagt tttgaattta 240  
tcttatgtaa ttgttatcct tcatatcaga aataatgggt tttttgtcac tgcctttgag 300  
ttttgaacat ttaagacact tgttggctat ttgcttgagt acaccagatt tcttaactgt 360  
cgaagcttct tgcttcagca caaaagattt cttaactatc gaaac 405

<210> 45762  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-A5

<400> 45762

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ggcgtgcggc aaaagctctg gttgaaaaaa atgaccgtga ctggcaggct cagcaggagc 120  
aagaagagcg acatagaatg ggtgaatcac ttgattttga gataaagagg tgggctgctg 180  
gcaaagaagg caacctacgg gccttgctaa caacgttgca atatattctt tggcctgaat 240  
gtggctggcg acctgtatca ttgactgacg tgattacagc agcatctgtc aagaaagaat 300  
acaggaaagc aacatttgtt atccatcctg ataagggtgca gcagaagggt gcaaattctc 360  
aacagaaata cattgcagaa aaggatattg accttctgaa ggaagcctgg aaaaaattca 420  
actcagaaga actcttctaa 440

<210> 45763  
 <211> 198  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-025-Q1-K1-A6  
  
 <400> 45763  
  
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 gggccgcact gctcaacgag cgggcgcggg gcggacaact aatcggcgag gcagtcactc 120  
 gggagagatg tcgggcggca ggaggagggg gcttgtgtgg agcctccccg tggcgaggtc 180  
 ggatgcgctc ggaaaact 198

<210> 45764  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-025-Q1-K1-B1  
  
 <400> 45764  
  
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 tgggtggggga cgccgccaat ctttcgccg cgggggtgca ggagctcaac gtcacgcgt 120  
 cgggcggccc aatttcggtg cgcttcggcg gtaatgtcag ggcggttccg gcaggcagtg 180  
 cagcgccaag gtgcgtggtg ttcgatttgg atggcggtgcc gcagttccg gacctggagg 240  
 caaccgatat gtgctcgacg tatcgccaag ggcattgtct gatagtgggtg aactccagtg 300  
 ggattgctcc tgctccacct ccacctggcg cgatagcccc gtcgattccg accactggag 360  
 gaaataccaa gggaagctca aaggcgtgga agattgccgt cagtgt 406

<210> 45765  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-025-Q1-K1-B10  
  
 <400> 45765  
  
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gtctatgcaa ttggggatgc gatccctggg cccatgcttg ccataaagc tgaagaggat 180  
ggtgtcgctt gcgtagagtt cattgctgga aaggaaggcc atgttgacta tgacacagtt 240  
cctggtgtgg ttatatacgca tccagaagtt gcatctgttg gcaagactga ggagcaggtg 300  
acggctctag gaattcccta tcgtgtgggc aagtttccac ttttggctaa cagtcgtgcg 360  
aaggccattg atgatgctga aggggtagtt aaggtgatcg cggagaagga aaccgataag 420  
attctagggtg tgcacat 437

<210> 45766  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-B11

<400> 45766  
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ctaagtgcaa gcttcacaaa tcatacatc atactgttg agtgacccaa tatatcctgg 180  
tagaaagcaa ctgttgagca catagatctt gtatcttaga cctcttgcg agattttttt 240  
tttttgcatt gccacaaatt agcgagcgaa taactatagt gattagagat tgtgaagtag 300  
atgcattgtg cgttagttga aaagccacaa tagtcaagca ttgcacttac tgtactag 358

<210> 45767  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-B2

<400> 45767  
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ggcgaagaag ccggcggcgc accctcccta cgctgagatg attgtagagg cgatcgctgc 120  
cctcaaggag aagaaggggt cgagctcggg ggccatcagc aagtacgtcg aggggaagca 180  
tggcggcaag ctccccacca acttccgcaa gc 212

<210> 45768  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-B3

<400> 45768

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acgggcatgt ccttgattat tgggtgtctac gacgagccaa tgactccagg gcaatgcaac 120  
atggtggtgg agaggctcgg cgattacctg atcgagcagg gcttctaaaa gttcgtcatg 180  
ttctgttttg gtcatttggg caccaaagtt tgcgcctcat ttggttctgt aatccgtgag 240  
ctcgtgcatg tacttggcgt attgcatgca gtgaataatt tagcttgggt ttgtttgttg 300  
ggggcagtgt tggggacgga tttggattgg ggtttatgct tggcatcgcg tcgtatcgaa 360  
actcagctgc tgtttcgctg agtaatgtac atttccctgg taatgggtact tgtggactct 420  
gatgctttt 429

<210> 45769  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-B9

<400> 45769

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tattcgacgg ggacaaaaca gtcttgtaca tatcattaca tcgtcatgag gatggaaact 180  
tttaccctgg aactggagct gctcatgagg tgggagttct tgatgggtcaa ggattctcag 240  
ttaatatacc ttggagccgt ggtggtgttg gagatgatga ctacatcttt gcttttcaga 300  
ctgtggtgct tccaatagct tca 323

<210> 45770  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-C11

<400> 45770

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aggtgagctg cgagggagcg cggatggggc taggagatgg aggcagattc ggcgaggaag 120  
agacttgcat tgctggccct gcttctcctg gcgggcgccc tccgcccggc ctcggcggct 180  
ccggtggagg atggcctgct cagcaatggt gactttgaga cagcaccaag tgggtggttt 240  
gtaaaatctg cgtctgttgc tgagggtgca tcgtcaatcc ctggttggaac gatcaacggc 300  
acggttgaac tcatttcagc atgcaaaca ccaggtggca tgatccttga tgtttcacia 360  
gggggaccat gcagtaaagc tagggaaatg a 391

<210> 45771

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-C6

<400> 45771

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aaggtgatct gcgagggagc gcggatgttt caaggagatg gaggcagatt cagcgaggaa 120  
gacacttgca ttgctggccc tgcttctcct ggcggcgccc gtccgtccag cctccgcggc 180  
tccagtggac gatgggcttc tcaacaatta ttactctcat acagcaccac agtggtggtt 240  
ttgtaaaatc tgcgtctgtt gctgaggggtg catcgtcaat ccctggttgg acgatcaacg 300  
gcacggttga actcatttca gcatgccaac accaaggtgg catgatcctt attgttccac 360  
atggggacca tgcattaagg c 381

<210> 45772

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-C8

<400> 45772

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tttctgaggt ggtggatgct tccattcaaa aacttgttga ttcacgcagt ggtctaagtg 120  
 tgtcccatgc aatgcacgct gctgctaaca tgtctgtgat ggagcgggca tgtgagttct 180  
 tcacacgcca tgctgcacaa ctgtgtggtg tgccactgcg tgctgcggac cgtggtcattg 240  
 tggactttcc acttcgcagg tcacgtgatg cttcagaggc gctcctgctg cggctcctat 300  
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 ctctttctgg cggcaatgag tatgccaac 389

<210> 45773  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-025-Q1-K1-D11

<400> 45773  
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 aacatttttt ccttcccat acctnccacn ccctttatat tatatactct caccttcaca 120  
 ctactacctc tccatatttt ttcaccaaatt tcaacttaaaa ttccatttcc tttacccaac 180  
 tttaaacacc tttcaaccct ttaaaacccc tctcctttcc ccaatattaa ctaatttcac 240  
 ctcaaaccac ccttccttcc caacaatttt acccccctaa atccccaact ctttcacccc 300  
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<210> 45774  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-A1

<400> 45774  
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 ccgtaagaac gaagagcatg tgaaccttat caaggaatac cgtgcgaaga tcgaggctga 180  
 actgagcaat atctgtgatg gcacccctgaa gctgcttgac tcccacctag tgccttcttc 240

tactgctgct gaatcaaagg tcttctacct caagatgaag ggtgactatc acaggatatct 300  
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<210> 45775  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G1

<400> 45775

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 caacatcaga agctccggcg agaaccccc ctttcggcta tcgcctgggg ataaaatggg 180  
 gtcagtaggg gcggtgacct atggggagca aaagggatcc catatggaga gatgaatcaa 240  
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 ctggctttt 309

<210> 45776  
 <211> 97  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G10

<400> 45776

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<210> 45777  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G11

<400> 45777

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acttctggaa cagtatttcg ctctcccaag gttcgcattg ctgtattcaa tcagcatcat 180  
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 gtgccggagc agaagttgaa ggcacatctg ggttcgattg gtggttcggg aagccttggc 300  
 cttcaatcta tgtacacttt atcaagtggc cagaagagta gggttgcatt cgcgaaaata 360  
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<210> 45778  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G12

<400> 45778  
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 gcacgttctg gctctagact tcattgaaag tgtgattaac aagaaccaa gcataaatgg 180  
 gcatcacaag aacataacct tcagggtgtc cgatgtgaca tctaacgact tgaagattga 240  
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<210> 45779  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G2

<400> 45779  
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 acgaggtgaa ccctgacatg gtcccagact ttgagaaggc cgggcttcag ttcgtgggca 180  
 aagatgagag tgggaaacgc atgggggatcg ttgagcttcc ctctcacaag ttcttcatcg 240  
 gtgcacagtt ccatactgaa ttcaagtcga gaccagggaa gccatctccg cttttcttag 300  
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cgaaagcatg ttcgat

376

<210> 45780  
<211> 149  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G4

<400> 45780

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ctaagtgaac ctttacataa tcccacact 149

<210> 45781  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G5

<400> 45781

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cttcctcttc aattatgatg atcgaagatt gtatggtatt tacgaagctt cagggaatgg 180  
aaagttctgt cctgaatcaa atgcatgggc acaagatagc aaggggcaaaa caagctatcc 240  
tgctcagggt gcaatgcggg taaagggtgtg gtgttttccg ctagcagaga atcagttcag 300  
aaatgcaatt atagccaatt actaccagaa aattcccggg gtccctggcc agaagcttca 360  
ttttttcaag tttgaattgg atcatgctca aacacgtggt ttgatggata ttgggtttta 420  
ctccttctcc ttctcccaac agtttctgga cgcccc 456

<210> 45782  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-G6

<400> 45782

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aaggtatcct tcaagatcat cctcaccttc gacccaagc tacctttcaa agtggttcagc 180
gtgcccgcgg cggcgccctt taccgcggtg ctcaagtacg ccgcggagga gttcaaggtc 240
ccgtcccaga ccagcgccat catcaccaac gatggaattg gcatcaacct ccagcaaagt 300
gcaagcaacg tgtttctgaa acatggttcg gagctgcgtc tgatccctcg cgatagggtt 360
ggagctgtag tcatgtcttc cagtttagagg atatatacag tccaatgcat aatttggagc 420
aaaactgaga gaaataagct tgat 444

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<210>      45783
<211>      451
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
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<400>      45783

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aaggtatcct tcaagatcat actgaccttc gacccaagc tccctttcaa agtggttcagc 180
gtgcccgcgg cggcgccctt taccgtggtg ctcaagtacg ccgcggagga gttcaaggtc 240
ccgccccaga ccagcgccat catcaccaac gatggaattg gcatcaacct ccagcaaagt 300
gcaggcaacg tgtttctgaa acatggttcg gagctgcgtc tgatccctcg cgatagggtt 360
ggagctgtag tcatgtcttc cggtttagagg atatatacag tccaatgcat natagttgag 420
caaaacttga gagaaataaa gctttgatgt t 451

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<210>      45784
<211>      436
<212>      DNA
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<223>      Clone ID: LIB3076-024-Q1-K1-H11

<400>      45784

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 gcatgcacga cagcaataat atgccaaatg ctgatagctc tgtgactcca gccagactga 240  
 agggaaaaag tattgagaag gataactcaag tgacacctaa gactggcaat aactccaaaa 300  
 aggaaggtcc agggcctttt gatctactac tggaaagctc agaatgcttg tgtcaaagca 360  
 agcagcaagg atgaacctga tagcaccgac aacttaaaag atgatgcttg cagtgaagac 420  
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<210> 45785

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-H2

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 atggtgaatc agtagaaaac actaatctgg aagctaattg tccatgggaa aggaagagac 180  
 agaagaagct caaggctgtg gttagagagg cacgggaaaa gttttctaac cctagcagtg 240  
 atgctttaac catcgctcgt gccctgcagt tctttgagtt gtcagaaaac ccagtggaat 300  
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<210> 45786

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 45786

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 agacattcca agaaaggaag ccaaggagat tgtacaagaa tgcaaagaga tatacgagaa 180

ctcgctcgtg gatggcaacc ctcgcaagtc aggttttgtg ttcggcaaat tgaagtgctt 240  
gacagcatag aaaggcatat ggaggaagct tngcagtaa gt 282

<210> 45787  
<211> 402  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-024-Q1-K1-H5  
  
<400> 45787

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agcgtcatca gctccccggc ggaccggatc gtgatctagc tttcctccaa cgaagtgcc 120  
atgaccgcgg ataacttaac tgcgctatgc actgccgaga aatgctttgg caagtccaca 180  
aagtcgcttc actacaaagg ctgcaccttc caccggatta tcacagagtt catgtgccat 240  
ggctgtaact ttaccacag caacaggacc agctgcgagt gcatgtacgg tgataagttc 300  
cgctacgaga agcttttgcg caagcacacc atgcccggtg tgatctgcat ggccaacgcc 360  
ggtgcccaaca ccaacggctg ccacatcttc atctgcactg ac 402

<210> 45788  
<211> 306  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3076-024-Q1-K1-H6  
  
<400> 45788

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aacggccacc acttcttcgg ggtgttcgac ggccacggct gctcacacgt ggcgacgtcg 180  
tgcggggagc ggatgcacca gattgtggcc gaggaggcga cagctgccgc aggctcgtcg 240  
gtttcggacg aggcggcgcg gtggaggggt gtcattggaga agagctacgc caggaatgac 300  
gccgag 306

<210> 45789  
<211> 438  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-024-Q1-K1-H7

<400> 45789

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acggacaccg ctgctcacac gtgtcgacat agttcggaga gcggatgcac caaattgtgg 180

ccgaggaggc aacagctgcc gcatgctcgt cggatcggga cgacgcgtcg cggagcagga 240

ctgtcatgga caagagctgc gcgaggatgg acgcaagatc ctncgnatnc tcaaggccca 300

tgggttggcg ccggagatcc cggaggatct ctactttctc attaagaaag cggtggcgat 360

tatgaagcat ttggagagga acatgatgga caaggactcc aaattcagaa cctttattct 420

tgttgagagc aggatcca 438

<210> 45790

<211> 227

<212> DNA

<213> Zea mays

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<400> 45790

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gagatgggcg acgctttgac cgtccgtccg gagttcatca acggccacca cttcttccgc 120

gtgctcgacg gccaccgctg ctcacacgtc tcgacatcgt tcccagagcg gatgcaccag 180

attgtggccg aggaggcgac agctgccgca tgctcgtcgg tttcgga 227

<210> 45791

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-F7

<400> 45791

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tgtgacctcat tcgctctcgg gttacgatgt cctgtgcgcc attgtttcgg ttgacgccgg 180  
 tccgttagta atttgaggcc agggttcggg gattttctcg gctgggacta ttgtttcggg 240  
 ctctttcttaa tggtataccg ggaggggtggg cattccctcg gtcgagttat tattctctgg 300  
 aaaaggtgca acactttaac catgtggttt gcttcatgtg gatgtcctgg tttgggtagg 360  
 tgtgacttgt gagtagtaaa acttttatct ggggtgttga attgtagcca tttggtacat 420  
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<210> 45792

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-C8

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 cgagaactat tcggtggggc cgaagatggt gtcgctgaag gtgccaaagc gcctcgccgc 180  
 aagcgttctc aagtgtggga aaggcaaagt gtggcttgac cccaatgaag ttagtgagat 240  
 ctccatggcg aactcccgcc ataacatccg gaagttggtt aaggatgggt ttatcatcaa 300  
 gaagcctcag aaaatccact ctagatctcg tgcaagaagg gcgcacgagg ctaagcagaa 360  
 gggacggcac tcaggatatg ggaagcgtag aggtaccagg gaggctaggc ttttcccca 420  
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<210> 45793

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-D10

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gaccctgggt ctgatcgcg gaggcattgtg gaagatgcac cactggaacg agcagaggaa 240  
gactagggtcc ttctatgaca tgcttgacaa gggccagatc agcgttggtcg tcgaggagta 300  
aagagttctt cccagttatt ttcaaagaac tctctcgaga gcatgacaaa gtgattgctt 360  
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<211> 122  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-D11

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at 122

<210> 45795  
<211> 392  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-024-Q1-K1-D3

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cggtcgttat gcaagaacta tccacactag ggtaactttg gacgtggtcc aggtagctga 180  
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tgaccaatat accaccacgg gaaaccaagc tatcaacgga ctgccaatac atcattctct 360  
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<210> 45796

<211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gaagcggggc acgtcggcaa aggggaaggc cgggtcgcgg atgcagcgct cgacgaactt 300  
 gacgaggacc agggacgagg gccacacaga ggtgcccacc tcgaaggagt cgttgtcctg 360  
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<210> 45797  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-024-Q1-K1-D7  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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agtatgtcgc ccagctgagg agagtgggca aggggcacgg ggtgtggcac ttcgatcaga 360  
tgctgcttga agaagaggcc taaaaagaag aacggacaga tgaatgaagg aaaaaaaca 420  
gtgtgtaatg ttgatcangc ggaggaataa tgggt 455

<210> 45799

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-E1

<400> 45799

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ttctggattt ggtagtggtt ctggattagg tggactgagc actgacatgg actcatttgc 180  
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gaaattaggc aagacacaga agacaaatca attccttgag tctttgaaag ctgaaggaga 300  
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<210> 45800

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-E10

<400> 45800

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gagttcgtcc tagatgcaaa agtacctggc tggttatgga gaggtcagct gaaggcttga 180  
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<210> 45801  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gcaagcccaa aggtcgtcca tctacagcag ctactgcacc tggtaaaggt tttggtatga 300  
 aattaggcaa gacacagaat acaaatcaat tccttgagtc ttttaaagct gaaagagaag 360  
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<210> 45802  
 <211> 163  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-E4

<400> 45802

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<210> 45803  
 <211> 253  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3076-024-Q1-K1-E6

<400> 45803

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cgagaactat catgcggggc cgaacatggt gtctcttaac gtgccggagc gcatcgacgg 180  
aagcgttcta cagtgtcgca aacgcaatgt gtagcttgac ccccatgaga acagtgcgat 240  
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<210> 45804

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-E7

<400> 45804

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aaaccctgct attaccaaac tcaatcgctt taactatcat cccctccca acatcttgcc 180  
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<210> 45805

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-024-Q1-K1-E8

<400> 45805

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ctattcacct tcgaatacat tactagtgga tgattcccct taaaagctc tgcgcaatcc 180  
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gggtcccaat ggagaccttc gtgtgtatct gcagaaccta gccgctgcag ataatgttca 300  
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<210> 45806  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-024-Q1-K1-E9  
  
<400> 45806

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ccccggagcg tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat 180  
cgtcatcaag aaccgcccct gcaaggttgt ggaggtttct acctcaaaga ctggtaagca 240  
tggccatgcc aaatgccact ttgttgccat agacatattc aacgggaaaa agctcgaaga 300  
tattgttctt tcgtcacaca actgtgatat tccgcatgtg aaccgtactg agtaccagct 360  
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<213> Zea mays  
  
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<212> DNA  
<213> Zea mays  
  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-F5

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 atgaactcgc tgacatccaa tgcttacttg ttcttataca ccgtcagcct caagcccagc 180  
 aaggccaact actacctga cgacgctctc tacttcgtga gtctgataca aggctctctc 240  
 tacgtctacg acgagctggc tctatcgaac catctacatt aagactatga ctcc 294

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-F6

<400> 45810

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 gttccatctt atcaacaccc atgcc 145

<210> 45811  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-C7

<400> 45811

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 tgagcattag tggatctact acgtacatat atagaatgaa acagcttcat ctctctctct 180  
 ctcgctgttt ccttcgtgat ctgcttgtgt atctactaac tatctatcgt atcggaacct 240  
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<210> 45812

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-A2

<400> 45812

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 tcaggatgct gtcttggttac tacacaacaa ttggtttcta cttcagtaca atgattacag 180  
 tatggactgt atatgttttc ctctacggcc ggctatatct tgtacttagt ggactcgatg 240  
 aagcactggc tactggaaag aggtttgtgc acaatacacc ttttcaagtt gctcttgctg 300  
 cagagtcttt tgtgcaactt ggatatttga tggcccttcc catgatgatg gaaatctgtt 360  
 tggagagagg attcataact gcattgagtg attttatact gatgcaactt taattgtggg 420  
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<210> 45813

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-A3

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 aacggctatc cttcgaggaa atgacaaaaa tgctaccgct cgagagaagc acgtaggctc 180  
 aatgtagca aaggaactaa gagagcgaat caagccatac tttttgcggc gcctgaaaag 240  
 tgaagttgtc tttgatactg gtgcatcaga agaaaaaaca ttagccaaga agaattgagct 300

aattgtctgg ctgaagttaa caccatgccca gaggaacta tatgaagctt ttctaaatag 360  
 tgagctgggt catttagcat tgcagccaaa ggcatcaccg ttggctgcaa tcacaaaaat 420  
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<210> 45814

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-A4

<400> 45814

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 cgggttcgttc ggtgccccctc ccgtcctgga tctgttgccg gagagcgagg cagcgcgcca 180  
 gattcgcccc cttctcttct cctaggaagc aggaagcaag ccgaccgctc gctgagcgcc 240  
 gccgccgatg gccgtcgagg tgccgatgaa gctctggagg gtggagaccc gcggcaaggc 300  
 cgccgccgag gggcccgacg accccctgag cgtcctggtg acggtgacgg tctcgggag 360  
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<210> 45815

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-A5

<400> 45815

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 ctataacctc taaatgcacg acattaaaca tactcaccag cagtcacaga acaatttttc 180  
 aatacccaat cctcttcaaa atatttcttg accgtgcata acattttacg cataaatcaa 240  
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<210> 45816

<211> 113

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-024-Q1-K1-A9  
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<210> 45817  
 <211> 210  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-024-Q1-K1-B1  
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 acacatgttc cagttcttct taactttttc tagcacctta aactaataaa tatcaacttt 180  
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<210> 45818  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 atccccggcg cggcagcgcc agcagccggc ctgcaaattt atggacagat ctgattgaat 180  
 aaaccgtgaa agatatgccc tggaataaaa tcaatgccct tcttttcaaa atgttcgact 240  
 tctaccgctc aaacattttc atcatattca tctttttact cgtccttctt cccgatacaa 300  
 ccatagttat atgtgggtct tggcaaccct ggtgagaagt atcaatccac caggcacaac 360  
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tacttcaaag cactc

435

<210> 45819

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-024-Q1-K1-B12

<400> 45819

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ggccttnctc ctgcctcctc ttggttctcg ctgggtgccg ggagcttggg gtcgagagta 180  
cttctgttgg tccgcacggc gaggcggcgg cggagaccgg tcagaaagaa tgtcttcgtc 240  
ccaaatcgcg ccggcagatc atgtgtgcta tgtgcactgc aacttttgca acacagttct 300  
cgcggtgaat gtcccgggga atagcatgct caacatcgtg acaattcggg gtggacactg 360  
cgcaaatacta ctgtcagtga acctgaaagc acttacgcac tcactcccag aacaagatca 420  
tcagcttcaa gagaaca 437

<210> 45820

<211> 184

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-024-Q1-K1-B3

<400> 45820

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tgtgctngaa atatttcattg gaaaaatatg cttttgtaat ccaaaccta ttcatatcaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatacaa 180  
aagg 184

<210> 45821

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-B5

<400> 45821

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atctatattt aactgaatca tctggcaata ataaatactc ctctaactgt tattaattat 120  
cctctacatt cttcattttc ctacttatgc cttactctct cataacttaca tatataacaa 180  
ttttttgaat cttcatatta tcacaacta 209

<210> 45822

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-024-Q1-K1-B7

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gcccaggaag cagcttgcca ccaaggctgc ccgtaagtct gccccacca ctggtggagt 120  
gaagaagcct caccgctacc gccctggaac tgttgccctc cgtgagatcc gcaagtatca 180  
gaagagcact gagctgctga tcaggaagct gcccttccag aggctcgtca gggaaattgc 240  
acaggacttc aaaactgatt tgcgtttcca gagccatgcg gtgcttgccc tccaggaggc 300  
tgctgaggca taccttggtg gcctgtttga ggacaccaac ctgtgcgcca tccatgctaa 360  
gcgtgtgacc atcatgcaa aggacattca gctggcaagg agggatccgc cgggagagag 420  
ggcctaactg c 431

<210> 45823

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-B8

<400> 45823

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actctcaact ccacagtaat aaaacctgcc acttttcaac ttgccaccga cccttccctt 120  
aactctcacc ccaccacttc tagactgaat aaacctaacc tctaccgtcc tcaaactcat 180



ccctccatg acatccgcaa gtatcataac atcaattacc tactcatcat taacctgccc 240  
 ttacacattc tcgtaactca aattgctcac gacttcaaaa ctgattctcg ttacaaaaac 300  
 cattctatac ttccctcca tcaagcatct aatgcatact cttcttcaac tgtttcaaca 360  
 cactaactct ttctctattc attctaaac 389

<210> 45824

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 45824

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 tccccggcgc ggcggcgcca gcagccggcc tgcagattta tggacggatc tgattgaata 180  
 aaccgtgaag gagatgccct ggaatagatt catgcccttc ttttcaaaat gttgtacttc 240  
 taccgttcag acatcttcat catattcattc ttttctctcg tccttctccc cgatacaacc 300  
 atgggttattt gtgggtcttg gcaaccctgg tgagaagtat caatccacca agcacaacgt 360  
 gggttttgat atgatagatg catttgcgca atcccaaggt ataccttga ctacacatta 420  
 cttcaaagca ctctttggtg aaagg 445

<210> 45825

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-C12

<400> 45825

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 cggcggcgtg caccagccca ctttaagat cttctgcaag gccgacgagg ggtactgcct 180  
 caccgtccgc gacggcaacg tgggtgctggc ccacgccaac ccgcgcgacg agcaccagca 240

ctggtacaag gacatgcgct tcagcaccca ggtcaaggac gaggagggca accctgcgtt 300  
 cgccctgggc aacaaggcca ctgggctcgc catcaagcac tccctcggcc agtcccaccc 360  
 ggtgaagctg gtgccgttca acccgagta ccaggacgag tcggtgctgt ggacggagag 420  
 cggcgacgtg ggcaag 436

<210> 45826  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 attcaaaaac ttgttgattc aggcagtggc ctaagtgtgt cccaggcaat gcaggtcgct 180  
 gctaacatgt ctgtgatgga gcgggcatgt gagttcttca caccgcatgc tgcacaactg 240  
 tgtggtgtgc cactgctgac tgtggaccgt ggtcggcggg acttcccact tcgcagggtca 300  
 cgtgatgctg cggaggcgct cctgctgcgg ctccatgtgt ctaagggtga tgagttcatg 360  
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 gtatgccaac gaggtcatca tc 442

<210> 45827  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-024-Q1-K1-C4  
 <400> 45827

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 attaaacaac ttgataatct atgcactcgt ctaaagtgtc cccatccaat ccatatatct 180  
 gctaacattt atctt 195

<210> 45828  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-024-Q1-K1-C5  
  
 <400> 45828  
  
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 acatccattt tccaaccag ttcatttact tcaacaatat acaaacaata taatcaccaa 180  
 cacaacact cttaactttc ctaattttcca tcctagttta ttaaacttca tatatccaaa 240  
 caactcaaac aacaaccggtt acatca 266

<210> 45829  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-024-Q1-K1-C6  
  
 <400> 45829  
  
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 tgagcattag tggatctact acgtacatat atagaaggaa acagctgcag ctctctctct 180  
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 ggggaggccg ccacccccgg ctccggtggt gagcagaaga aggctcggca gcgtcggagg 360  
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 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-024-Q1-K1-A1  
  
 <400> 45830

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aggaaatgac aaaaatgcta ccgctcgaga gaagcacgta agtcaaagtg tagcaaagtg 180  
actaagagag cgaatcaagc cataacttttt gcggagcctg aaaagtgaag ttgtctttga 240  
tactggtgca tcacaataaa aaacattaac caagaagaat gaactaattg tctggctgaa 300  
gttaacacca tgccagatga aactatatta agctttacta aatagtgagc ttgggtcattt 360  
aacat 365

<210> 45831  
<211> 479  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-023-Q1-K1-F1  
<400> 45831

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gaacacaagg gagacagctt ttgcgcttcg caagctgcct ttgaccaagg ctaagcgata 180  
ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact gtggaggtgt 240  
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gtcagccagg ttcatattgg atttgctgaa gaatgctgag agtaacgctg atgtgaaagg 360  
cttgagcgtg gacaacctct atgtttcaca catccagggtg aaccaagccc agaagcagag 420  
gcgccgcacc taccgtgctc acggacgcat taacccttac atgtcctccc cttgccaca 479

<210> 45832  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-F2  
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<210> 45833

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-023-Q1-K1-F5

<400> 45833

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 gctggtgggg agaaggacga cgacatcac ttctgaccac tccttccatg gccatccagt 180  
 cattcaatcg tggcagaaac aataagttga tgctggagct ccagaattgt atctgtttat 240  
 agaatgatgg agattttgat tcagtaagta gtctggagtc tagccatccg agaccctcaa 300  
 taatctgtac ctggaaacca aacagtgcc aataactttt acggagcggt atgtgcagct 360  
 catgtagaaa attcaattgg accgtatttc ctgtcgtgta ccttctagta atcgattata 420  
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<210> 45834

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-F6

<400> 45834

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aagggcaacc caatgataag cgaagaaaga ctgcagaaag aaacaattct gtagaagagg 180  
 aggggtattgg agctgggtgac aatgattcag attcatccag tcctcttgcg cactcagatg 240  
 ttgacaaaga tgtaaactct gttggccaca tggaggaagt aatagttagc ttagctgaga 300  
 aagagaagac caggaaggac tccaaaggca tggaaatgaa agagaaggga aggaaggact 360  
 ccaaagacgt gaaaataaaa gagaaggctg ggaaagagtc caaagacgtg gaaatgaa 418

<210> 45835  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-F7

<400> 45835

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 ttaataatcg tagaagctac actctttttc cactttcagc taaattccac tccatcaaag 180  
 atacacttca taactactaa cataatgtta cagctcctat agttactaac cccctcaact 240  
 acccacttaa attgatttct aaaaa 265

<210> 45836  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-023-Q1-K1-F9

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 cagcgcgcgc agccccttcc cttgctccac tccgttgccg tccgaaatgg cgcagctggt 180  
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 cttgtggaag acgaggcgga gctcagcgac tggattagcg acctcaaac tgactcggtc 300  
 cacctcggtc tcagcagcgc agacgaaggc gatgcgccgt ccaccgcag gtcctcggtc 360

ggctcatcc

369

<210> 45837

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-G1

<400> 45837

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ggggaccact cccgcaagct ctctttccac aagattgac tccgtgacaa gggagcactg 120

gaaatggttt ttgcttctac aagatttgaa gctgtcattc acttcgctgg attgaaagct 180

gtgggtgaaa gtgtacagaa gccattactt tattatgaca acaacgtcat tggcacgata 240

aatcttctag aagttatgtc tgttcacggg tgcaagaagt tgggtgttctc atcatcagct 300

gcagtttatg gatcacccaa aaactcacc tgcacagaaa attttctct tactccaaac 360

aatccatatg gcaaaacaaa gcctcgttgt gaagatattt tgccggatat ctaccgttca 420

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<210> 45838

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-G12

<400> 45838

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gctgggagat agatgccctt attgcatcag gtgttcttta gatggtgaaga aagagggaaa 120

gaggacacgg caagtgctag gccggatgga tggatggatt gagcgaccta tagtctggat 180

ctggatcctg ctgtctcgct tgttgtggaa cgttccatga atgaatgcgt aggaccactt 240

ccgttagaat tagtagtatt gtgcaaggta ggcttcgaaa tcggaagtgg tagactaaat 300

tgtgtgtcaa ggtacttctg gtcgcagatt tcagaagttg taagcacttc tgattaagga 360

gatctttttt tttgttgttt gacgtaagat ttaaggagat gtttatattc gagaagtttg 420

ggaccagtca tga 433

<210> 45839  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-G3

<400> 45839

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<210> 45840  
<211> 403  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 45840

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agcccaagtt cctgaagaat ggtgatgccg gtatggtgaa gatgattccc actaagccca 180  
tggtggttga gaccttctct cagtatcctc ctctgggtcg ttttgctgtc cgtgacatga 240  
ggcagacggt tgctgttga gtcatcaaga gcgtggagaa gaaggacca actggtgcca 300  
aggtgaccaa ggctgcagta aagaagaaat gatgcgtcct ctcatgtgcc ctcgtttatt 360  
ttgtacttgt gcccgatatac ttcgatctgt taaaatctat tgg 403

<210> 45841  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-G7

<400> 45841

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gcacccgggg gcggaaaaaa aggcctcggg gccctgatg tccattgcga aaccctcgc 120



tggaagaag ctctgcaagc ggaccctcaa gctcgtgca cgagcctccg aggcgaagtg 180  
 cctcaagcgc ggagtcaaag aggtagtcaa gagcattcgc cgcgggaaca aaggattgtg 240  
 tgtgatcgct ggaaacattt ctctattga tgtgattaca catgttccga tactatgtga 300  
 ggaagctaag gttccttacg tatatgttcc atcaaaagag gatcttgca cgcaggaac 360  
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<210> 45842  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-023-Q1-K1-G8

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 agaagctctg caagcggacc ctcaagctcg tgcaacgagc ctccgaggcg aattgctca 180  
 agcgcgtagt caaagaggta gtcaagagca ttctccgcgg taacaaagga ttgtgtgtga 240  
 tcgctggaaa catttctct attgatgtga ttacacatgt tccgatacta tgtgaggaag 300  
 ctaatgttcc ttacgtatat gttccatcaa aaaaggatct tgctaccgca tgaaccacta 360  
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<210> 45843  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-H1

<400> 45843  
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 cacagctacc tggattatta tccatttctg ctgtacttat tgtattgtat cttattgtct 180  
 ctaaaacaaa ttaacattcc cataggatta cagtgtcacg cactatcaat ctgtatctca 240  
 tagattttgt tctcttatat aaattccttg ctatattcac attcttatat tcatctcaat 300

agcaactcct tacttttcctt atgttcatca ttcaacatac tactaaatta cttgctctac 360  
ctttttatatt ccatgtttga ac 382

<210> 45844  
<211> 468  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-H11

<400> 45844

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caataatata agaaactgga taaggaacat tgagcaacat gcttccgaca atgtgaataa 180  
aattttggtg ggcaacaaaa ctgacatgga tgaaagcaaa cgcgctgtac cgacttcaaa 240  
agggcaggct cttgctgacg agtatggcat caagtttttt gaaacgagtg cgaagaccaa 300  
cctgaatgtg gagcacgttt ttttctccat agcaagagat atcaagcaaa ggctttctga 360  
atctgattca aagccagagg atcgacgat cagtattaac aaacctgatg gcggtgaggg 420  
ttccgcttca caaaaatcaa cttgcttcag atcgtgaagg ggttacat 468

<210> 45845  
<211> 74  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-H12

<400> 45845

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cacctccatc ccat 74

<210> 45846  
<211> 182  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-H5

<400> 45846

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cacnattccc caccaattcc aatctccttc tccctcacca tcacctacc ctttccccac 120

caatcccaaa ccccaaattcc tattcccaat ccaacaccaa ctttcccccc cctaaaaccc 180

ct 182

<210> 45847

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 45847

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caacttttcc tctactcgcg agtcgttcgc ccgccacctc cccatccctg cccctcgc 180

atccaccgca ccgctcaatc tgcctgaacc aacgaggaag cggcggaccc cgttctggtc 240

gtgtccgacc aggtcgttcc atgccacaat gcaagtgtat acaacaagat tactatgatg 300

tgcttgagt 310

<210> 45848

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-E9

<400> 45848

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tgatgatctc ttcaggaaga cacagtctc tccaaggatc tactatctgc ctttatcaga 180

agaggagggtg gcagccaagc tcgccgaca gggcaaagga aaaaaggagt aggaggtgtt 240

ggcttccatt ttgggtatc tcggagtttg ttgtggaaca tggcgtgcgg tggtcacagc 300

atcagacagg tgctactgct gcagaccatt tgaataaacc ggcgggcgtg actgccgcgg 360  
 cggaagagta gtcgtagggc tgtttctgtg gaaaagggac tagtgtagga gcagcagcag 420  
 cggcttgtat ttcttaaaga gattattagt tttggttggg tctccgactg cagtgtgtgc 480  
 taaag 485

<210> 45849  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-C12

<400> 45849

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 ttacaaatgt gaccaatttg cttgccactg tcatgggtatt cctcatacat atctatttcc 180  
 aaggcttccg agttgtgcta acagagacat caaagaatgc tcgttgacat caaggctcat 240  
 atccaattaa tctgtttctac actacaaaca tgcacatcat tcttcactct acgctgatta 300  
 ccaacctcta ttttatatac cagcttctct acaggaacta cagtggaaac ttccttggtta 360  
 accttcatga gaagtggaaac gagtctgaat actctggcca ttctattcct gctggcggtc 420  
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<210> 45850  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-C2

<400> 45850

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 tcagcaaaac catatgctct actcaactaa cacacaaata ctacatatat atatataac 180  
 cctgtgtgtc aattaatgcg ttctaagctc cttctcatgc accttctttc ttctctttc 240  
 cccctcttat tatatactgt aacccttgct tttcaacctc ctcttctaaa aaccatatct 300

tctctttcca tac

313

<210> 45851  
<211> 206  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-C3

<400> 45851

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tccatcccaa taacaacctc taccattcct tccccaccc taacaactac taaccancat 120  
aaccatatac tcctctcacc taaaaaacia ctactacata tatatatata tactcttttt 180  
ctcaaaaaat atcattctaa cctcct 206

<210> 45852  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-C4

<400> 45852

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ccaccaagaa gctagacgcg tgcaatggcg aggcattgca aaggcggagc ggagctgcac 180  
ccgcgccgct cggcgccgcg tgcgaccggt caaacggcg gagcagacgt gcgttccacg 240  
agctgtcggt ccggccccctg gactgctgtc atggctgcgg agccggcgcc tgtcacgcc 300  
ctatgccgct tttctctttc gcagctct 328

<210> 45853  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-C5

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 gacgatgcca agtggcacgc ccatgcccac tccgccgctg gcagcaacgg cgccgtcacc 180  
 gtcggccacg gtgccccgc gccccacgtg cacgcggccg gtctcccgc gctctcggca 240  
 ccggcgccca cagcgggagc tgacgacctg ccgccaccgc ccgcgcccgt gccgacgtcc 300  
 gtgtcctcac cgccgagccg cgagcccggc ccgcacttcg gcttcccgt gcagccgggc 360  
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 atcggaagca accc 434

<210> 45854  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-023-Q1-K1-C7  
 <400> 45854

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 taacgtcaag accctcaagg gcaccaactt cgagatcgag gcgagccccg atgcgtcggg 180  
 tgctgaagtg aagaggatca tcgaaactac tcagggtcag agtacctacc cagcagacca 240  
 gcaaagtctc atataccaag ggaaaattct gaaggatgag accactttgg aaagcaacgg 300  
 agttgctgag aacagcttcc ttgttataat gctgtccaag gctaaggcat cgtcaagtgg 360  
 agcttccact gctactgctg caaaagctcc tgcaactcca gcccaacctg cttgccctgc 420  
 cacatcagtt gcaagaacac ctacacaagc 450

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 <211> 311  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-023-Q1-K1-C8  
 <400> 45855

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cagcagaagc atatgctctg ctcagctaaa agacaagtac tacatatata tatatatatcg 180  
ctgtgtgtca attaatgggt tctaggctgc tgctgatgog gctgcttcgt tcgtgttgcc 240  
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ctgtgtggat t 311

<210> 45856  
<211> 329  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-D1

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acatagaatg tggcaacgtg gtatcagctg attgtgcgat gtcaaaccce gtggcaaggg 180  
ctgattccag cctttgtatt cccgtcaggc aggtcagatc tagtatatcc cactccttat 240  
ctggtctgac tgggtgagagc agcgtggag atcaccacga ctgtgggggtg ttaccaatgc 300  
tcctcatgag tgagccaccc tggcattct 329

<210> 45857  
<211> 367  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-D12

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caacaaccta tcttatactc ttcaataaaa caaaccttac cttctttcac aacatcttcc 180  
tcctcctatc ttatccaatc atcccaatct taacaccaac tttttacca cttcttccca 240  
gcatctoctg cttatccttc tagtactgct cctttaacta accctctatc cctacttca 300

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<210> 45858  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 45858

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ttggctcagg gcaaggagta tgtctttgtt gcaaactcag acaacttggg tgctatagtc 240  
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ccaaagacgc tggctgacgt taagggtggc actctcatct cttacgaagg aagagttcag 360  
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<210> 45859  
<211> 234  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-D8

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ccttctatag ccacatcaa tctcctaaac catctaataca ataaccagaa ctattacttc 180  
attcacttac tccaaaacac ttgcataccc taaatattac actctcatct ctta 234

<210> 45860  
<211> 440  
<212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-023-Q1-K1-E1

<400> 45860

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gccagctctg atgtcaggag ctagtggtc aaccggggcg gcggcccccgc ggtacgcccc 180

ggatgacctg acgttgctca agccgtggcg cggcctcgtc gacggcacca ccggctacct 240

gtactactgg aaccgggaga cgaacgtcac gcagtaagag ccggctatgc ccctgagaa 300

tcanctgcc cgcggccgc ccccggtgcc tccccgcct ccccgagacc gcgaccggcg 360

cgacaggctc agatcccgat cccgcacccc tcccaggcgc gaccgccgcg accgcgaccg 420

tgacgacgag catgcgtcct 440

<210> 45861

<211> 88

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-023-Q1-K1-E10

<400> 45861

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agtatnntct ggagggtng ccaacaaa 88

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<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-E11

<400> 45862

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gcacttcgac cttacacgtc ggaggcccca cattccgaat agacttgatt cggtcagggt 180

ctatttctat accatgttca tggatgacaa atcctaaaaa cttaccagcc gacactccaa 240  
aagcacattht acgtgggttc atttttaaac cataccgacg catttttatca aaggctttgc 300  
gcaaatacagc tatatgagaa ctaaactcag ccgatttgac tacaatatca tcaatgtaga 360  
cttccacagt gtttcctaac aactcatgga agatcagatt catagccctc tgataagtag 420  
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<210> 45863  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-E12

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ttcaaccgct ggaccttcga tgatgtccag gtgaacgaca tctcgtgaa cgactacctc 180  
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aagcgggttc gcaaggcgca gtgcccgatc gttgagcgcc ttacaaactc cctcatgatg 300  
cacggggcga acaacggcaa gaaggtcatg gctgtccgca tcatcaagca taccctggag 360  
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agt 423

<210> 45864  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-E2

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cgccgcctat tgctctgcc gccgaggcct cgcggggcgc ggagacgttg gtggtcgacg 180

agagggtcgc ctcacacgtg gacccgttcc tcgtagaggc gctcgacaac cctcgccacc 240  
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aggagttcga attccagaac tttccgactt cttacctacg ctgtgctgct catcgtgttg 360  
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<210> 45865  
<211> 329  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-E4

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ccggggcgga gccggagccg aagcggcggc ggctgaaccg gctgggggtcc agcgtggtgc 180  
gcagcgcgac ggtgctggcg cgcaccctgg tggcgtgcga ggagaagcgg gagcggcggc 240  
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<210> 45866  
<211> 285  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-E5

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ttcatcctca cccaaacctc ccatcatcca taccctccact tctctcctt ctctacctat 180  
tccctcactc cctacagatc cataacctaa cctacatcat ctaaaccctc atatttccaa 240  
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<210> 45867  
<211> 247  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-C11

<400> 45867

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tcaatgtaac ttacatgtct aattcttcan cttcttaa at ggcattctcc cggacatttc 120  
ataatcgcag tatcagacga ttataatcta tgcattgtata attcccacca taatcccatt 180  
cttaatacct tttctccaca tattaacaca tagacatttt tttattttac tccacatagt 240  
accatca 247

<210> 45868  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H6

<400> 45868

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gcgtcgtcgt ggaagctgcg catcaagatc ctgctggacg cgtcccgcgg catcgagtac 120  
ctgcactcct acgccgtgcc gcccatcatc caccgcgaca tcaagtcgtc caacatcctg 180  
ctggacggcg ggtggacggc gcgcgtgtcg gacttcgggc tgtcgtgtgac ggggtccccg 240  
gagccatcgt cggaggagtc gcggtcgcag cagctggcgg tgacgacgaa ggccgccggc 300  
acggtggggg acatggaccc ggagtactac gggctgcacc acctgacggt gaagagcgac 360  
gtgtacgggt tcggtgtggt gatgctggag tcgctga 397

<210> 45869  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H7

<400> 45869

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 gcgtcgtcgt ggaagctgcg catcaagatc ctgctggacg cgtcccgcgg catcgagtac 120  
 ctgcactcct acgccgtgcc gcccatcatc caccgcgaca tcaagtcgtc caacatcctg 180  
 ctggacggcg ggtggacggc gcgcgtgtcg gacttcgggc tgcgtctgac ggggtccccg 240  
 gagccatcgt cggaggagtc gcggtcgcag cagctggcgg tgacgaccaa ggctgcggc 300  
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<210> 45870

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H8

<400> 45870

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 gtatagaaga aagaaggaag aaccgtcacc gtacgtcctc gccagtacaa ataatggccc 120  
 tgctcaaagc cgcgcgcgtc gccgatgtgc ccacctgga cgtggtggtg gcccccgcc 180  
 tgggtggcgg tgcgaaggcg aggagcgccg cggcgggtgg cggccggttc tcggtgatcg 240  
 ggcaccgcgg caaggggatg aacgcgctgg cgtcggagga cccgcgtctg cgggaggtcc 300  
 gcgagaacac ggtccgctcc ttcaacgacg ccggacgatt ccccgctgac tacgtcgag 359

<210> 45871

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H9

<400> 45871

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 tgatgcgttc cgcgtcctcc aggacggcgc ggtcgccgtc gccggcgacc gcatcggcgc 180  
 tgtgggcccg tccgctgatg ttctcggcga cttcccctgc gccgtgcaga ccctcgacct 240  
 ggggtggcgc attgtccttc cagggctcgt aaacacacac gtgcacacat cgcagcagct 300

ggcgcgaggg atcgccgacg acgttgatct gatgacgtgg ctgcacggga ggatctggcc 360  
ctatgagtca cacatga 377

<210> 45872  
<211> 92  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-023-Q1-K1-A11

<400> 45872

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gtccgcccac gcgtccgagt tctagatcgc ga 92

<210> 45873  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-A2

<400> 45873

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tttgggtggt ttcagcgtca acatcaatcc aattcttttt cagtgggtcaa cacacaagca 120  
caaagtggaa aacccaatcc ttgtttggag caacacccta tagttggaag tccaaagctt 180  
ctaaaatgaa ggaaagtaat gagagagaga gagaaaaaac aaatgggtcaa aggcactgca 240  
cattgtggat agcagaatgg ggtgagcatt aggttttttt ttttgaaatt ttagaaggcc 300  
taatactccc gtgtggacag tggaccctaaa cgacatctga aaatcgc 347

<210> 45874  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-A3

<400> 45874

gtctcttatt agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct 60

tctgatcgcc accaatggcc actgccgagg tagctggatc gatcgaccct agtcttcgat 120  
tcatatatac atacatgtgc acggatcggt tggatccgaa taatacctat atatgaataa 180  
tgggtctctgt ctcatcgatg atcggtcggt cgatcgctca tcttcgatga gacgtacagc 240  
gatggacgtg cggatcatat atatcctatg ttaacaatgg aagacgctaa gattaagtgt 300  
ggcgctaaga tggaggagta catgctttga tttttacgcg ccgttcacgt gtgc 354

<210> 45875  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-A6

<400> 45875

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gagacagaga aagctggcag gatccttggt gataagcgct tcatgaccaa tgtgaaggga 120  
gtctatgcaa ttgggggatgc gatccctggt cccatgcttg ccataaagc tgaagaggat 180  
ggtgtcgctt gcgtagagtt cattgctgga aaggaaggcc atgttgacta tgacacagtt 240  
cctgggtgtgg ttatacgca tccagaagtt gcactctgtt gcaagactga ggagcagggt 300  
acggctctag gaattcccta tcgtgtgggc aagtttccac ttttggtctaa cagtcgtgcg 360  
aaggccattg atgatgctg 379

<210> 45876  
<211> 275  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-A9

<400> 45876

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gcaggttgaa gacagcttgg atgattgggt tgatgaacaa ctagagaact acttagatga 120  
tgattatctt gtgtttgatt gccctggcca gattgaactc ttcacacatg ttccagttct 180  
gcggaacttt gtcgagcacc tgaaacgaaa aaatttcaac gtttgcgctt gttaccttct 240  
tgattcacag tttgtcagcg atgtaacaaa ataca 275

<210> 45877  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-B11

<400> 45877

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 gagagcatat gataactgga tatatgtcat tgaatatgat ggcaaaggctc tattgaacct 120  
 taaaccaaag aaaaaggctg catccactgg tcaagctgag acgcatgctt ctgcgggtgg 180  
 ttcgacttcg tatcaacaac acctctcctc aacgagcatg ccaggggtcat caccatcagg 240  
 tggaactgat tccgtagggt atggtgccga ccattcagca gcacatctac ctcaactcca 300  
 gagttcatcc accaatgtcc aggcgccata cgatgacaca ttttctttct taccgcctaa 360  
 catgctgaca gggctctgca acgatgccat gggctctggaa ctgggccagt tgcaccaagt 420  
 aatttc 426

<210> 45878  
 <211> 95  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-023-Q1-K1-B12

<400> 45878

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 ctccctccgct agttctatat caaaagcggg cggtg 95

<210> 45879  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-023-Q1-K1-B2

<400> 45879

agcggcgcgc gccattccca ttcgtgtggt tactatacta cacacaggaa taatangacn 60



cggcgcccg cgcctgcga tctcagctct ccgttaacac gcaaacgcaa gctcccaagc 120  
 agctaccaac cagccgggag agggagcgca cgcactgcga caatggccac ggccggcgga 180  
 ggggcccggc atctgaagct gctgggcgcg tggccgagcc ccttcgtgaa ccgcgtacgc 240  
 atggcgctgc acctcaaggg gctggagtac gagaacgtgg aggaggacct caccaacaag 300  
 agcgacctgc tctcgcctc caaccccgtc cacaagctcg tccccgtct cctccacggc 360  
 gacaagccca tctccgagtc actcgtcatc gtggagtacc 400

<210> 45880  
 <211> 144  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-B3

<400> 45880  
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 aacactgctt caggccgggc tgatccaaaa agcttctatg tccgggcgca aactcctgga 120  
 aatgctcagc tgctaacttt tctt 144

<210> 45881  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-023-Q1-K1-B5

<400> 45881  
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 gccggcatgg ggaactagct tcgtggctgg gccccacgcc atgcaaacca gtgagaccac 180  
 cgggaccgca tcgccgccgg ctgttgagcc ggaggccgag gacaaggtgg aagagggggc 240  
 gcgggcgaat gaggaggcgg cggcgaaggt gggcggcgac gacgaggatg actgggaatc 300  
 ggagcatgag gggaggagag gcaggcgga cgggtgccgg cgaggcggtg cggcggggga 360  
 cagcgccgtg gccatggtga agcgggagct gctcacgcgc tgcttgacgt gcccgctctg 420  
 cgaccacctg ctccggcagg ccaccacat ctncagtgct ctncatacat 470

<210> 45882  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-B7

<400> 45882

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gctggtgagg ctgcccgtat tgccctgcaac aagtacatga ccaagtctgc aggaaaggat 120  
gccttccacc ttccgggtccg ggttcacccc ttccatgtcc ttccgtatcaa caagatgctt 180  
tcgtgtgctg gggctgatag gctccagact ggaatgaggg gtgccttttg caagcctcag 240  
ggcacctgtg ctagggtgga cattggtcag gtcctccttt ctgttcgatg caaggacaac 300  
aatgctgcac atgccagtga agctctgcgt cgcgccaagt tcaagttccc tggccgcca 360  
aagattattg agagcagaaa gtggggcttc accaagttca gccgtgccga ctacctgaaa 420  
tacaagagtg agggtagaaa tgttcctgat g 451

<210> 45883  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-B8

<400> 45883

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tcaccagact ctgcaccgcc gcggtgatcg tgccctcggct gcttcctaga ttactgcttc 180  
aggccgtgct gatgcaaat ggttctatgt cagggcgttt ctgttggaat tgctcagttg 240  
ctagcttttc ctggtagatc atcaagtttt aagagcacc agtttcatgt taaaacggat 300  
catttttctg caagagctct acgtgctggc actgattcca ttcatcatgg catgtctaca 360  
tcattcccaa gggagaattc tctcaaggca tcccatcact atcagggcag cataatcagc 420  
a 421

<210> 45884  
<211> 473  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-B9

<400> 45884

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ttgtgagagg gccaaagaaa ctctgtcttc cactgcccag accaccattg agattgactc 120  
gctgtacgag ggcattgact tctactccac catcaccgt gccaggtttg aggagctcaa 180  
catggacctg ttcaggaagt gcatggagcc tgttgagaaa tgcttgaggg atgccaagat 240  
ggacaagagc agcgtccatg atgttgtcct tgttggtggc tccactagga tccccagggt 300  
gcagcagctg ctccaggact tcttcaacgg caaggagctg tgcaagaaca tcaatcctga 360  
tgaggccgtt gcctatggtg ctgctgtcca ggccgctatc ctcaagtgtg agggcaacga 420  
gaagggtgcag gacctgcttc tgctggacgt cactcctctc tctctgggtc tgg 473

<210> 45885  
<211> 394  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-022-Q1-K1-H5

<400> 45885

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ctgcactcct acgccgtgcc gcccatcatc caccgcgaca tcaagtcgtc caacatcctg 180  
ctggacggcg ggtggacggc gcgcgtgtcg gacttcgggc tgctcgctgac ggggtccccg 240  
gagccatcgt cggaggagtc gcggtcgcag cagctggcgg tgacgacgaa ggccgncggc 300  
acggtggggg acatggaccc ggagtactac gggctgcacc acctgacggt gaaaaacgac 360  
gtgtaccggt ttcgtgtggt gatgctggag tcgc 394

<210> 45886  
<211> 453  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-023-Q1-K1-C10

<400> 45886

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attgtgatct cattgaattg aacttatttc tattgtgaaa cccttcctta gtacatcact 120  
atccaatgat tagtctcagt gtaacttaca tgtttgattt tgtagtggct taaatggcat 180  
tctcggggac atttgataat cgcaggatca gaggattgta atgtatggat gtggaatgcc 240  
gaccataatg ccattctgaa tacctttgct ggacatagta acacagtgc atgtggtgat 300  
tttactccag atggtacat cacggttcct tgattgctac acatctgcct atttataaag 360  
ttgtggtttg gtcgcctatg taggtgtacc tatgaatgct gtgttccttg tgaaggtaaa 420  
cttatatgca ctggatcgga tgatgctct ttg 453

<210> 45887

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F8

<400> 45887

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gatgccaaatt aaggctgatt gcaactgtgc actaatgacc agtttcaaca atatcttga 120  
gcgttttagg gataatttct atcggctctt agaggttcgc tgtgaacaga tgatcaagta 180  
cttgaacttc agttatattc gaactattgt gaacgtgcat gatgatgtcc atatcttcta 240  
gaccaggttg ttgttagtgc attgatatgg ctcaaa 276

<210> 45888

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F9

<400> 45888

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acccgaggat ttatcaattt acgcggtgcg agccgctcac tgaggaggac gtcattggcac 120  
 tgtgcctcat cgccatcaag atgctcatag cggagaatca cttg 164

<210> 45889  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G1

<400> 45889

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 gtatcggatc cacagtgggtg tgtgcacgag agatcgaatc acaatgcata ggagtttatg 180  
 caccaacatg tccgttttct aacggggcgc gatgtttaat cgggccatca taaccactat 240  
 tattgatggc gtactcgtat aaacactggc cgaataatgt cgatactgat gcgtgatcat 300  
 acctaaggga ctatctatct cgatagtcac ttactgcac atatatattat ga 352

<210> 45890  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G10

<400> 45890

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 agccggtctc tcgctccgtg aaggccggcc tccaattccc cgtaggccgt atcgcccgct 180  
 acctcaagca gggtcgctac tgccagcgtg tctgcaccgg cacaccgctc tacctcgtg 240  
 ccgtgctcga gtacctcgcc gccgagctgc tcgagttggc ggggaacgca gtcgcggaca 300  
 acatgaagaa ccggatcatg ccgcgacacg tactgctggc gatcccgaac gattaagaac 360  
 tctggaagct act 373

<210> 45891  
 <211> 388  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G11

<400> 45891

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gatcaatggt ggtgaagaag gccgctgcgg cgcttcgagg cggggggcggc cccaagaaga 120  
agcctgtctc tcgctccgtg aaggcctgcc tccaattccc cgtaggccgt ataggacgct 180  
acctcaagca cggtcgctac tgccagcgtg tctgcaccgg ctcaccgctc taccttgctg 240  
ccgtgctcta gtacctcgcc gccgagctcc ttgagttgtc ggggaacgca gcgcgggaca 300  
acatgaagaa ccggatcatg ccgcgacact tactgctgtc gatccgcatac gatgaggatc 360  
tctggaagct actgtccggc ttgaccat 388

<210> 45892

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G12

<400> 45892

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gggctctggt tgtgaagatg gcaggagcag cacttcgaat cgaaggccga ctctagaaca 120  
accaagactt acgcgcagca a 141

<210> 45893

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G2

<400> 45893

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ttgtgagagg gccaaagaaa ctctgtcttc cactgcccag accaccattg agattgactc 120  
gctgtacgag ggcatgact tctactccac catcaccogt gccaggtttg aggagctcaa 180  
catggacctg ttcaggaagt gcatggagcc tgttgagaaa tgcttgaggg atgccaagat 240

ggacaagagc agcgtccatg atgttgctct tgttggtggc tccactagga tccccagggt 300  
gcagcagctg ctccaggact tcttcaacgg caaggagctg tgcaagaaca tcaatcctga 360  
tgaggccggt gcctatggtg ct 382

<210> 45894  
<211> 56  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G3

<400> 45894

actacacgac tcgaatgggt tcagcagatt tgtgagttct ttaccggcac tatega 56

<210> 45895  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G4

<400> 45895

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gctactgact acgctgaact cacaatcctg cgacagaggt tcaatttcaa ggctaccacc 180

aatgtctagc tattataacg aaccaagcac tgtcaatggt gaatcctgaa agatccccac 240

aaccagagct aaatcaccaa ttcttgatct gtcttaagac aagtccatat catagac 297

<210> 45896  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G5

<400> 45896

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ctacacttct actccttgct caccatcatc caacgtatca ttaattcatc caaca 175

<210> 45897  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G6

<400> 45897

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gggtactact acacattgcc accaattata catcaacaca tagactcact caaagagctt 180  
cttgacggtg tgtggactgt tctagtatga cacttacgaa tactcgttac ggtgttccgg 240  
gatccatggt aagtatgagt cgcgcgc 267

<210> 45898  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G7

<400> 45898

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gcgttctacg gataattgct attgattctt aaaggggttg tctgaacaca gctagaaata 180  
cttgaacttc agttatattc gaactttcgt gaactggatg atgatgtcca aatcttctag 240  
aaaagggtgg ggaaagtaca tggatctggc aaaaattgc catcgagaaa gtcctattat 300  
catctagctg caaattggcg tatgaatgcc t 331

<210> 45899  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G8

<400> 45899

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gctaccagaa gtgacttatt ggaactgaaa actaatcacc agcttcaaca ctatcttgga 120  
 gcgttctagg gataatttct attgtttctt aaagggttgg tctgaacaaa gctagaaata 180  
 cttgaacttc agttatattt gaacttctgt gaagtggatg atgatgtcca aatcttctag 240  
 aaaaggtgga tgaaagtaca tggatatggg acaaaattgc catcgagaaa gaccgattat 300  
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<210> 45900  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-G9

<400> 45900

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 ccgcttccgc cccggtaccg tcgcgctccg ggagatccgc aagtaccaga agagcacgga 180  
 gctgctgac cgcaagctgc cgttccagcg cctggtgcgg gagatcgcg aggacttcaa 240  
 gaccgaccta cgcttccaga gctccgctgt ctccgcgctg caggaggcgg ctgaggccta 300  
 ccttgctcgt ctcttcgagg acaccaacct ctgcgccatc cagccaagc gcgtcaccat 360  
 catgccaag gacatccagc ttgcccgccg catccgtggg gagagggcct aagcatcgta 420  
 tattctgtca tcagtgc 437

<210> 45901  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H1

<400> 45901

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 cgtctacgaa ttcttccctgc gtgtaaaaat cttcatgatg tagtgtaatt tccaccgttt 180  
 cacctggttt tatcagaccg acggctggtt ggacctcgag ccaaagtggg aagccaaagg 240

atgcccttgg aagaagctct gatttagttc catcctcctt cttggttgac tgcccgtcac 300  
 ataggatctc gaaagctgct ttgcttggtt cgcatttatt cgtaatttgg aatacaatat 360  
 tctcttgatt tt 372

<210> 45902  
 <211> 234  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H10

<400> 45902

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 tgatgcgttc cgcgtcctcc aggacggcgc ggtcgccgac gcctgcgacc gcatcggcgc 180  
 tgtgggccct ttcgctgatg tactttgctg cttgccttgc tccgttgag actc 234

<210> 45903  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gcttctccct gcccagcgc cccgccgagc cgaagcggca gaggatcgcc cttcgcgatg 180  
 tcaacacgga ggtgatgcag aacaccattg cgctcgagcc cctcgccagg agagtggaag 240  
 aatttgacaa gggcaattgg accgaagaaa atacacagat actatgtgat cttgttggtg 300  
 aacagattag ggaaggaaac tatcttcatg gccacatgaa aaatacagct tacaaggcca 360  
 tggctcanaa gtattatgaa tgcactaacc ttttccatgc accaaagcaa cttgaaaata 420  
 gatacaacca gtgcgag 437

<210> 45904  
 <211> 312

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F7

<400> 45904

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gaagaacctg acggcgggacg acctccgcgc cgtcgtcaac acgcgcatcc ttagcctcat   120
gacctgctac cgcagcgagt tcgcgcactg tgacgtgagc aacgagatgc tgcactacaa   180
cttctacgag cagctgctgg ggcccaacgc ggctcttgag ttctatagcc tcaagcacga   240
cgccgagccc ttggtcacgc tcttcatgaa cgagtactac gtcatcgaga cctgcgacta   300
ccctttatcc ac                                     312
  
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<210> 45905  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H12

<400> 45905

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cgccaaggc cgagaagaag cccgcggcga agaagccggt ggaggatgag cccgcggccg   120
agaagacgac cgccgggaag aagccaagg cggaagaagc ggtcctcgct ggcaagtccg   180
tcggcatgga gggcggcgag ggca                                     204
  
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<210> 45906  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H2

<400> 45906

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cggacgcgtg ggcgttgatg gcgtgcgtct tggtttccgt tgagctgctg cctgctatat    60
gtattctgag aacagcttgc ttgtccctgg tgtcttcgca ccaccagttc tgtggtattc   120
cgtctacgaa ttcttctcgc gtgtaaaaat cttcatgatg tagtgtaatt tccaccgttt   180
cacctggttt tatcacaccg accgctggtt ggacctcgag ccaaagtggg aagccaaagg   240
  
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atgcccttgg aagaagctct gattcagttc catcctcctt cttggttgac tgcccgtcac 300  
 ataggatctc gaaagctgct ttgcttgttt cgcataatata cctaattcgg aatacaatat 360  
 tcttttg 367

<210> 45907  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H3

<400> 45907

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 gtatccggag aacagcttgc ttgtccctgg cgtctacgca ccaccagctc tgtggtattc 120  
 cgactacgaa ttcttctcgc gtgtaacaat catcatgatg tagtgcaatt tgcaccgttg 180  
 cacctggttt tatcacaccg acagctgggt ggacctcgag ccaaagtggg aagccaaagg 240  
 atgcccttgg aagaagctct gattgagttc catcctcctt cttggttgac tgcccgtcac 300  
 atatgatctc gaaagctgct ttgcctcgtt cgcatttata cgggatctgg aatacaatat 360  
 tctcttgat 369

<210> 45908  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-H4

<400> 45908

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 gtattcggag aacagctaac tggcccctgg tgtcttcaca ccaccagttc tgtggtattc 120  
 cgtctaccaa ttcttactgc ctcgaaaaat cttcatgatg cagagtaatc tccaccgttt 180  
 cacctggttt tatcacaccg accgctgacg ggacctagat ccatagcgcg aagccaaagg 240  
 atgcccttgg aagaagctct gattcagatc catcctcctt cttggttgac tgcccgtcac 300  
 ataggatctt gatagctgct tttgttgact cgca 334

<210> 45909  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E10

<400> 45909

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cccacgcgtc cgccctctcc gaaatcaagg tagcgtacac cgctgcagtt tctagagccc 60
tctctgccac tcgtgatccc actagtcaca atgcctgccc tcgccaagcc cgctcccgc 120
accgccaagc ccgccgcggc tccgaagccg aagcctgccg ccgccaagcc gaaggcggcc 180
accgctggtg cctcccaccc gccttacttc gagatgatca aggaggctat cacggcgctc 240
aaggagagga ccggctccag ctcgcaagcg atcgccaagt atgtggggga caagcacggc 300
gcgtctctgc cggccaactt caagaagatg ctgtccatcc agctccgtgg gtccgcaacc 360
aagggaagc tcgtgaaagt caaggcttcg tacaagctct cggacgccgc caag 414
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<210> 45910  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E11

<400> 45910

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ctcacgcgca cgatgggtct gcagatgagg ggcactatcc tgctgggca caagtgggaa 60
gtcatggctg atctgatctt ctacagacac ccagaggaag caaaggagca cgaggaggaa 120
gctgctgccg cccctgagtt tgctgcagct cactgattac caaggagctg atcagcgggg 180
cggtgaccag cggacctctg atgtggctgc accacctgtt gctcctactg gtgctgattg 240
gggtgctgca ccagctccag ctctacccg tgatggctgg gatcaaactg caggccctgt 300
tcctgtggat ggcactgttc ctgcagaggc cgctcatact gggtgggaat caccagccca 360
accactgcc caaggctggg aataggcgtt caggcatcac tacgagacgt cttgtgcagg 420
attat 425
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<210> 45911  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E12

<400> 45911

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ggaatcgcca tgctgtactc gcaggaacac cacttggaat ccaaggccct cgctgaggca 120  
tccaatacct acccgagct tgctggcacc attcggtaca acggcttcat cgtgatcgac 180  
agccatccct gctcgggtgc tgaggcttct acatccatga ctggtactca tggtcactcg 240  
agatgccgaa tcagctccat ctacatattg caatggaaat aacttgacta tattcgtcct 300  
tcattctcaca actgctacat tccgaatgtg aactggactg agtatcagct gattgatata 360  
tccgaagacg gattagttag c 381

<210> 45912

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E3

<400> 45912

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agaagtgate ttcgacccaa tggcctctgg tgcccgggaag ccccgccgcc caggggcgcc 120  
gtcagccagc aaagaatggc acagcttcat gggatcgagt ctgtcggata tgtatcgga 180  
gccagttttg gagaaatctg ctgacacatc tgatgaggag cctgacattg atatcatgaa 240  
gctgctgaaa gatgttgaga tcattggtgc cctacattt aaggggcgaa agcaaatcga 300  
gaaccgcaga gtagttgagt tgggtggaaa gtccgttaag aagcaccgca caccattaag 360  
tgttgcgaaG ccagctctga agaatcagaa gaaacgagaa cagaagaaaa tggaagagga 420  
aaaactactt gggatcttt 439

<210> 45913

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E4

<400> 45913

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 ccaaacattc tgcagacaca acagagcagg ccaagctggt ggcgaaggat tggaagaaaa 120  
 tgattgacaa cacagtgtgt tgtagggAAC ttgacacgct gtctaggggt cttctccaat 180  
 tccttatcgc atataacatt gtatctgaat tcaatatcca tgatatcatc agtatatttg 240  
 ctatggttcg caaaggttac aagaataaca acattgccaa gctttgcaag gatct 295

<210> 45914  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E5

<400> 45914

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 tctggccaga agttcaacgc catcttcagc ttcggcgact ccatgtccga caccggcaac 180  
 ctgtgcgtga acgggtcccc cgccggcctg acgctcacc agccgcccta cggcgagacc 240  
 ttctttggcc gcgccacctg ccgctgctcc gacggccgcc tcgtcgtcga cttcctggcc 300  
 gagaagttcg ggctaccgct gctgaagccg tcgaa 335

<210> 45915  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E6

<400> 45915

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 ggctcttcaa aggagtgatg tttccatagt gtcgtggctg tgctcccagg ttgatttgcg 180  
 ggcaactatgt gcaatggttc cagtacctct taaccagggg gtccttctgg ccttattgca 240  
 gcagctagca attgacattc acaatgagac atcacggaag gttcaatgga tgacagatgt 300  
 tgccatggca atcaacccaa gagaccagat catcgcggtg catgtgcgac caatctttga 360

gcaagtctac agccaattgg cccaacaacg gaca

394

<210> 45916  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E7

<400> 45916

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aatccagagc caagcagcca acgtgaacaa tgtacacacg cacacgccga tcaccagatc 120  
caacggccct cgctaatcca gcccacccca atcgcacccc aaaaaaaaaa acaagagcag 180  
attaaaccaa acaaataggc acgcatcaca aggcaattcc gaagaaggac cagcagcgcc 240  
aggccgcgcc ctactggct gagcgcgccg acctccgaca cggcggggcga gtccgagacg 300  
ccggaggact cgtccatgga ctctgtcg 328

<210> 45917  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-E8

<400> 45917

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cgacccatgg gtcgagctta tagacaagac ataagctcgc gcacagtaag caagagactt 120  
gatcaagcat atgcagttag aagagtaagg tcatcgttat atagcgtagt cgcgatcaat 180  
gcaagttatc aactgagtcg catgagtgag tgcattgatg gataaagctg gctagcttag 240  
ctagctctca tcatgcgatg ggaccctggg tgtgagatcg agaggcgtgt ttctctgact 300  
aatggactaa gctatagtgc taattggacg catgtgaaga ccccttagg cgtgggtggtg 360  
gtt 363

<210> 45918  
<211> 393  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3076-022-Q1-K1-E9

<400> 45918

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tgcacgacac gcgcgtggac acgcagatca acgcgcagct gacggacagc tacaacgggc 180  
tgaccatcat ggcgccacc aacgccgtct tcgacaagat gaaggccggc gtgctcaacg 240  
ggctgtcgcc gcaggaccag atccagctcg tcctctactg cgtgctgccc cgcttctaca 300  
gcctcttcat gctcggcacc cttgacggca aggtcaacac gcagggcttc ggccacgacg 360  
ggccctacag gtacgacatc aagcggtcgg gca 393

<210> 45919

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F1

<400> 45919

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gattcatgaa tcacagaaag caggattttt tgaagaaata aattttcctt acccgatcgt 120  
ctcgggtgatt ggtgggggta aaagagagat cgatctttat gcatattatt ttggcgccga 180  
cttggcagtt ttcttccttg ttgcaatggt ctatcaatct atcctaataaa ataagagtga 240  
attcttggaa gtttaccagc tggaggatca gttccccaaa gaatttggtt tcatccttat 300  
ggttctcttt atcttgatag tggttgaccg cattatatat ctttggtcct ttgctaccgg 360  
caaagttggt ttctatcttt ttaaccttgt gcttttcacg tattctgtca ctgaatatgc 420  
ttggggaacg ga 432

<210> 45920

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F10

<400> 45920

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cgagggcatg cccggcgccc gctactacgg cggcaacgac gtcacgacg agatcgagaa 180  
cctctgccgg tcacgcgcgc tcgctgcctt ccaccttgac gccgcgtcct ggggcgtcaa 240  
cgtgcagccc tactcggggt cccccgcaa cttcgccgcc tacaccgcgc tgctcaaccc 300  
gcacgaccgg atcatggggc tcgaccttcc ctccggcgga cacctcactc acgggtacta 360  
cacggccggc ggtaagaaga tctccggcac ctcgatctac tttagagagc tgccgtacaa 420  
ggtgagcgcc gcaac 435

<210> 45921

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F11

<400> 45921

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aaagtcaccc ggatatggtt cctgaatttt accatggagt gcaacggact actgaaatgg 120  
tgcagaaaca aatggctgat ttcaggcaat attccaccaa cagaaggcct agtgaattag 180  
ggaacggctc tcttaatgcc aatggtacag cagctgctca gaggggctgg gaagacgtgg 240  
cgaagctagt tattacagcc ttgatcaagc tcttctcctt tatacggctg ttcctttcca 300  
gagccaccga gagtaggcta tagaaggctc gtcgcactgc cacatcacta gcagcagata 360  
agccaaagcc gtcccgagcc gttagcgaag aagaagtgcg cgcttgactg cagcgcttgg 420  
acagtctcga gtcgc 435

<210> 45922

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F12

<400> 45922

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ggaatcgccc tgatatactt gcaggatcac accatggaat gcaacggact acctaaatgg 120  
 tgcaaaaact aacggctgca tgctggcact attccaccaa ccggatgcct cgtgaataag 180  
 aacacggctt tcatagttgc aaaggttcat a 211

<210> 45923  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F2

<400> 45923

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 gcgtcatcca ggccatcgtc aagaagctcg tcggcctccg ccgcttcgcc cacgcactcg 120  
 agctgtcggt ctggatgacc gaccgcaggc acctccacct ttcggtcggt gacgtcgcg 180  
 accggctgga cctaatacgc aaggtgcacg gccttgagaa agccgtcgag tacttcggca 240  
 tggtagcgaa gcagctgaag aagccgcagt gctacggctc cctcctgaaa tgctatgtgg 300  
 a 301

<210> 45924  
 <211> 175  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F3

<400> 45924

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 aggagtcac ggatgacact gagcaggatg tactgaagat acacattttc cttacactca 120  
 ctgaatctgt gactgtggat gatcaaccag agatccctct ttatgcatgt tattg 175

<210> 45925  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F4

<400> 45925

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tactcatggc tgccatacag ggtgatcacg tgactgtaca acaggtacat accggactct 120  
gtcggtaatg gctggggacc taacggagat ccaactggcct gcgtgtcata caggcactgt 180  
cttgggcgga cataatcggc gaggattacg gtatatcttg taatcctcca gatgatctta 240  
atagct 246

<210> 45926  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F5

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gacccgctac cgcggcgagt tcgcgcactg ggacgtgaac aacgagatgc tgactacaa 180  
cttctacgag cagcggctgg ggcccaacgc gtccgcggag ttcttcagcg tcgcgcagga 240  
cgccgacctg ctggccacgc tcttcatgaa cgagtacaac gtcacgaga cctgcgacga 300  
ccccttctcc accgtcgaca cgtacgtgtc caagctcaag gacc 344

<210> 45927  
<211> 105  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-F6

<400> 45927  
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gtgcaacatg aggcgcgctg gcttgcgtgc gaagcgcacc agtca 105

<210> 45928  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-C1

<400> 45928

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ggagagaact gtggcatctt agcctcagct atcttgtagc cacgcgcata agcagctagt 180

atgaccttga caaatggccg tctgtacaca gcatagctag gggagcatgt acaagatcaa 240

atagcactta gagaacggca 260

<210> 45929

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-022-Q1-K1-C10

<400> 45929

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aacgagcttg actatgaggg ggaagcgcgt ttggtggcgg aggcgagggc gtcgtgggat 180

aggaaggcaa ggggggagga ggaggatgaa gaagaacatg atcctgagat gaccttggac 240

tactacgcct accaggctaa aaagtttcgc aacacctgga acatcctcta tttcggctac 300

ttcggtcgct tcgaggacac cacatggatc cctcctatgc gctttacaga gaagccgnct 360

gactccccgg cgtaccgcg cactacactg caggtctttt cgatcaaagt tgcaaggata 420

gaggggggtt taca 434

<210> 45930

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-C11

<400> 45930

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atccagctta actatgagac gctaacacgg ctccctaacgc tgctcctgcc aagaagggat 180  
 atgccaaacac ccaggcctta aaagtagcca aagctgcata atcttgatca gaccattgga 240  
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 gtggccagtt ccacctgagc tccagcttct ctgaagggtgt acggggcccg aacatctgcc 180  
 tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc cagagccttt 240  
 ggggcccttc aatgtctgtt agcgggtggca tcaatgttcc agtgatgccg actccgcttt 300  
 ttgccaatgc tccagccgag aaaggtggca aaaacttcat gattgatttc atgatgggcg 360  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tctggatggc ttgcggatgt tgtcattcat ctcataatcg tataacacat atttgtatat 180  
 ataagttatc aagatattat atgttccaga tgtaatgcac ggacactgac ctatcttata 240  
 taatacacta agtgagtgcc cgtgcgtcac aggcccaagt ttctcttcga tgtcatctcg 300  
 aacagctcgc atatgtcatc ctctatctca taactatata acatatatgt acgtatataa 360

tttattgaga tattatatgg ccttgntgca acgcacgtgc actgacctag taatggttta 420  
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<210> 45933  
 <211> 345  
 <212> DNA  
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<223> Clone ID: LIB3076-022-Q1-K1-C3

<400> 45933

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 cctggatagg accgcagatg taggcatgca tttgatagtc atagtacaca tgtttgtact 180  
 tctaagggtgt caagacatta tactggccag atttagtaca cagacgctgc actcactgggt 240  
 gtagtacact aagcgaggga ttttacgact aacggcggtg agactatgct atactgctgg 300  
 gatcccgat ggtatgacaa gcttgatggc ctcacgggtat gatac 345

<210> 45934  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-C4

<400> 45934

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 atctggacgt atagcggatg tagtcattga tcttatacac ctataacaca tatatgaata 180  
 tagtaagttc tcaagataat atatgtgcca gacataatgc actgacactg acctatctta 240  
 tataatacac taagagagtg cc 262

<210> 45935  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3076-022-Q1-K1-C6

<400> 45935

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ttcgacgaca cgaagctggg ggtgaaaggc ctggtggact cgggcgtcaa gtccatcccc 180

tccatcttcc accacccgcc ggaagccctg agcgacataa tttctccggc gccgactctg 240

ccgacgtcgt cgccctccgg cgccgncatc ccggtggtgg acctctcggg gacgcggcgc 300

gaggacctag tcgagcaggt gaagcacgct gccgggacgg tgggcttctt ctggctggtg 360

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gagggccccc g 431

<210> 45936

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-C9

<400> 45936

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actggtgtc cgaacgggga cgcttggttc ctctcattcc ccttccacct ctctctttct 120

ttccactact cgccctctct ctcttgcgcg cgcgtgacaa catccctcca cgggcgcgcg 180

gcgcgggagc acccaccgac ttatcgccgg tggggcgggg cgggggcgat ctgatgccgg 240

cgcggcggtg atggcagcgc cgtccggcgg tggggcgggc ggtgcggggg agggctcctc 300

ctcggccgcc gcagctatga cgatcggggc ccacgggggtg gaccaagtca cagaagcgat 360

gtggcagatg aatttaggag atgcatgga actggggcca taccagagc gtgttggtga 420

tccagactgt agctattaca tgaggact 448

<210> 45937

<211> 224

<212> DNA

<213> Zea mays

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<400> 45937



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ctagcacaga gacatccgtt ctcgagatga gtagctatat gcatattgac tgggctccga 180  
gttgccattg ctgcgcctag gccgactggt cagtcagcct atac 224

<210> 45938  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-D11

<400> 45938

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ttcgagaaca accctaagga gcctaggacc attgcgcaac aacaactcac ctgtgatgaa 180  
caaaccagta tgcacagaag ctatggtaat gtccaacca 219

<210> 45939  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-D12

<400> 45939

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cagtttggtc tgtgagcagc ggctgtgctt ggtacgaggc atgggtgcagc aacgaatctt 180  
ggagtttgca agaaaagagg ccttgccttc tttgacaagg tctggctgtg cctatctgat 240  
ggaggcatgc cagtttgagc accagctttt tgcccacttc ttcccagcat ctgctgctga 300  
tgtttctagt atggctcctt taatggaccc tctgtgcacc tacttgtagt atactctgag 360  
gcctagactg atttatgaag gaaacattga ttctctttgc gaacttggtg atattctg 418

<210> 45940  
<211> 307

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-022-Q1-K1-D2  
  
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 aaagcgtcgc gcgcggttgt ttgagaggag aggaggaaga tgagggagtg catcttcggt 180  
 cacatcgggc atgccgtcat tcaagtcggt aacgcgtgct gggaacttta ctggcttgag 240  
 cacggcatcc agtctgatgg tcatatgcct gtagataaga ccgcgggaca ttactatgaa 300  
 tgccttt 307

<210> 45941  
 <211> 173  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-022-Q1-K1-D3  
  
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 gaaaccacgt gcatgttcac tggtagatcg cgcttgcatg gcgacaagag tgacatgaat 120  
 gaagacacac tgtacgctaa aagaatatac gccgagaaca ccatggcgaa cgg 173

<210> 45942  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cggggtgaga cggctatggc gtgctgctcc gccgtcctgc accatccgct gggcttctca 120  
 ctcaccccggt gctccgcctc ccgagcccca ccgcgcaccc agcgcgtggg cgtggcaact 180  
 cctcgggccg cctccgcccg cctcttttct cgcgccagga tctcaccgag ctgcacctac 240

tccggtggcg ccagcgctgc ccttggctct ggggagctac ccgcgccggc gctccgacgg 300  
 gtccttgaga tgccgggtgc gcaccaggcg cccgncctgt acgacgcgct gagcgcacgc 360  
 ctctgcgagc gcgccgagtt cagggcctgc ttcacgagcg gtttctcaat ctctgccgca 420  
 cg 422

<210> 45943  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-D8

<400> 45943

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 gacaggtcat acagtatata gccagtggca gaggaattcc tgtttgctgt gggtaaagct 180  
 tatcttctgc tctcgtgttg tttcttgctt ctttcgatta tggagtaggt cataatgtat 240  
 tagctgagta tcctttccct gctaattgga ctgtattacg cttcattaag tctggctgat 300  
 tactgtttaa cggggaaaag ttgcacctgt gtacgattat ttatttggac ctggcatatt 360  
 tatggagaac taagccttgc gg 382

<210> 45944  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B9

<400> 45944

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 aaaaatcttg aagccttgtg ttacatgggt ccttttatag aaggagcttg actacctggt 180  
 tgaagctctc atatgcactg cacgcagata tgctgacata gaggttggtt catacatgtc 240  
 atccgatatc aggggcattg aatccttg 268

<210> 45945

<211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-022-Q1-K1-D9  
  
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 ctactgtgac gacgccaacc agaagctatg agtgatgcta cacgtgtttc agatctgggt 180  
 gaccaacatc aatcttaacc tctggatcac caaacagct ataaactaga aaggtacaaa 240  
 ttcacacca tctacacacg gacatcaggc acgtgtatag catgaaaaga tactaac 297

<210> 45946  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-022-Q1-K1-E1  
  
 <400> 45946  
  
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 ctctactaac agacatagtg catgagcctg tcacaccaga tgaaacactg tccgctgagc 180  
 acacaaaaaa ttgctgctac ccaccgacca ccagaaaatg ctgctgctgt tatgactgag 240  
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<210> 45947  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-001-Q1-K1-F3  
  
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 aagttcatga ccaaccgcct cctggcccgc aagcaattcg tgcttgaggt gatccacccc 180

ggccgcgcca acgtctccaa ggcggagttg aaggagaggc ttgccaaggc gtacgaggtg 240  
aaggacccca acaccatctt tgtcttcaag ttccgcaccc acttcggagg aggaaagtcc 300  
actggtttctg gcctcatcta cgacaacctc gaggctgcca agaagttcga gccgaaatac 360  
cgnctcatca agaatggtct tgctactaag gttgagaagt cccgcaagca aatgaaggag 420  
cggaagaaca gggccaagaa gatccgtggt gtc 453

<210> 45948  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G2

<400> 45948

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gtttgaaaca taaggaggaa gagaagagaa gactaggctg tgtgcaacca aagggtgct 180  
aacggctagg gcac 194

<210> 45949  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H4

<400> 45949

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catctgggtg tgaaaaactt ccaagcgctg gatcttgga cgatggacaa gacaaatgat 180  
tccggccttg cttcctacgt tgctgggtcaa gttgaccgca ccctttcctg gaaggacgtc 240  
aagtggctgc agacaattac ctcgttgccg atcctagtca aagggatcgt gactgcagaa 300  
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gccagctaga ttatgttcct gcgactatca act 393

<210> 45950  
 <211> 210  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-B8  
  
 <400> 45950  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3076-004-Q1-K1-B9  
  
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 <211> 73  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-C7  
  
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 atgagtgata gct 73

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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-004-Q1-K1-D5  
  
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<210> 45954  
 <211> 79  
 <212> DNA  
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 <223> Clone ID: LIB3076-004-Q1-K1-D6  
  
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 <211> 262  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-005-Q1-K1-B11  
  
 <400> 45955  
  
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 aaaatctcac ttatttggtg tccccctctc tttttttctc tgttcttgct tgatttcatt 180  
  
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 <211> 193  
 <212> DNA  
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<223> Clone ID: LIB3076-005-Q1-K1-F7

<400> 45956

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tatctgtaca gcacagagac ttggaaaaca cacatgcttc aacacataat ggtgtggcat 180  
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<210> 45957

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G4

<400> 45957

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ttagagttat tgggggactc tgttcttaag tatgcagtga gtgccatct tttcatgaca 180  
tttcttaata agcatgaggg acagttatcg tccagaaggc aagaaacaat atgtaatgcc 240  
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<210> 45958

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G8

<400> 45958

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tagagttatt gggggactct gttcttaagt atgcagtga tgccatctt ttcatgacat 180  
ttcttaataa gcatgagga cagttatcgt ccagaaggca agaaacaata tgtaatgcca 240  
cactttatag gcttgggtatt gaacgcagga tacagggtta catacgtgat gctgcatttg 300  
atcctcgtcg atggcttgct cctggacagc tgtccagacg tccttgctct tgtgaatgcc 360



cagtaaattc tgaagttgta actgaggata ttcataggat tgatgacaag tctataatta 420  
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<210> 45959  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H6

<400> 45959

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ttagagagat gcttggaaat cttcgtcata actacttata tcttctataa tcttattact 240  
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ctttataactg agta 314

<210> 45960  
<211> 91  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-B7

<400> 45960

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<210> 45961  
<211> 83  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B6

<400> 45961

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<210> 45962  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-F1  
  
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 tgcacgtaag ttcttgataa cacaggataa aaagcacatc acgttgacct ccaaaagtta 240  
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<210> 45963  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-G10  
  
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 tagagcagca cgtgagcgtt agtcgtagca gcaggatttg gttcgactgg ccgactgggt 120  
 gttgtcgttt acgacatggg ccaactggcg tcataaataa tggttgttgg agattgatat 180  
 ggcaaatatg aaactcgtgt ttttgt 206

<210> 45964  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-G9  
  
 <400> 45964  
  
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 cttgaggaga agattcatgc aagagagtta gaaataagca atttgcaagc caagtcaaag 120

gaaactgaag aagcagaact caaaatgctg agaaagagtt tgaatttcaa ggcaacacca 180  
atgccaagct tttataagga accaaccctt gccaaagggtg aattgaaaaa gatcccccca 240  
accagagcta aatcaccaaaa gcttggtcgg tctaaaaaca agtccatatac agagactgaa 300  
gaaaatacta ctacggacca acctgcccgt ctgagccttg acgaaaaggt ttcttaaaac 360  
ggtgtgaaaa a 371

<210> 45965  
<211> 55  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-B7

<400> 45965

ggtggcactt tttcgggaaa atgtccccgg aaccctatt ggtgaatttt tctaa 55

<210> 45966  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A2

<400> 45966

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gcgaccagga acgtttaaaa ccctaaccct ctttccatct ctagaagggg cgtcgctggt 180  
ctgttgatca attcctctat gctgttagtt ggaaacttcg ggtgtagttg gtggatttgc 240  
tgggtgtgtgc cttgtgttcg tggaaattcc tgtgaaggaa ctgccatgtg ttaggctggt 300  
accatgccca ttttcttaat actatgtggt gactgtgatc aagaaaaaat agagaaagat 360  
agcacaagat caaggaaaga t 381

<210> 45967  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H8

<400> 45967

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tctcgagcac ctggggagac cgcgaggcgt ggcctgatt tttctcatcg cagcagccct 120

caagttcccc acctcttttt tcttgagct ttcaattaat ctgatcatct acagccatct 180

ttattttact ttcatTTTgc ctttaatctg tttagttcca ttgcagcttc tgcggttgcg 240

gttagtattg ctgtttcttg ctccctgttt cttgttcttt tgcttctaac catggacgca 300

ggaacctact ccattctatc agagaagagc cacacggcgg cagcggcgcg gccccctctt 360

caggaggccg gcactcggcc ctacatgccg tcgctgagca caggatcgcg caaccgctcg 420

gccaagtgct acggcgatag gttcattc 448

<210> 45968

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-014-Q1-K1-H9

<400> 45968

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gtcggatcaa tataagtggc ggagttggga tttgttcttg gtgcaaaagc aagagcaaaa 120

gatcacctct atccgtatcc tagctttggt ggtccgcaga acaggtggtt aagaataggg 180

agaaacaagg gttaggtggc agaggaggca gtgaaatccg gccaaatctc gacgcaactt 240

ttcttgccga ttgttggtgc gtagtaagat cctagttgaa tccgtaggac gggcgctaata 300

cggaggaact tgcattcgatt cttgcgtgct gacggatccg gcaaggcggc aagataagag 360

ttggtgcctg ccgattgcag ggacagggac ggtgtttgtg gaattgcctn cttggaggan 420

gctggtgaga gggagaaagg atgacgatgc catg 454

<210> 45969

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C3

<400> 45969

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cgcaggactt caagaccgac ctccggttcc agtcctccgc cgtcgccgcg ctgcaggagg 120  
ccgccgagggc gtacctggtg ggtctcttcg aggacaccaa cctctgcgcc atccatgcca 180  
agagggtcac catcatgcct aaggacatcc agctcgcgcg ccgcatcagg ggcgagaggg 240  
cctgattgct gctctgtctt cctgtttctg tagtgtctga actaggggat ggaatctatc 300  
gcttcttgtc caaaaaaaaa actgatacat 330

<210> 45970  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D9

<400> 45970

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acatgatcat acatacggct tatgtgcatg ctatccggtc agcccaacat tctatttata 180  
ttgagaatta ctacttaatt ggttcttcat ttaattggga ttcaaacacg gacttacggg 240  
ctaacaattt aattccaatt gaaattgctc tccaaattgc aaataagatt aaggcaaattg 300  
aaagggtttc tgcatacata gtggtacctg tgtgacctga gggtaatgca tctggggcctt 360  
gaacacaacg aattctttac tggcaggatg aaaccatgct tatgatgtac gagacaatat 420  
actggacctt gagagaag 438

<210> 45971  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G4

<400> 45971

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gaacagcaac aagaaagtga tactctttat cagtcagtca agctgaatat tttcaaaatt 120  
ttcagaccaa acagtataa gcatgtact gctggacagt cgccctaatt gtctgtcctg 180

cggaattggt tctgggagtg tgtattgtta agtcgggttt ctccgagtta tacgagacat 240  
atggcttgag ttgtgtcacc aatatgctta tgccatagga ctatcagagt ttacttttaa 300  
tttcagagaa cataatttcc atcaatttca gtaggttcat ttttaatgaa aaaaaaata 360  
taattattta ttaaattaat 380

<210> 45972  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C7

<400> 45972

atggaaatat ggcaaattgt tctattcctc tgccgacccc catccttttt gattcttttc 60  
atccgacaaa tgttcactgc cccaaggcaa tccttgctta tatagttcat tgcaaaactga 120  
aggagcaaaa gtacaaaaca tacgagaggc tctctcatct ctacggcgta tgtgaatgcc 180  
ttgttccttc tctacctaca ccagcacccc ccttggaactc tatggctcttg catgaactgg 240  
attgcagcgc tggctctcgg gacgctgact gttatttttt ttggctttat ggaccaagta 300  
gtgtgcgtat tttagtgtcc attcagcaac tacttgctta acc 343

<210> 45973  
<211> 171  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D11

<400> 45973

atgttcgaag gcaggccacg gcgtgtattg atgcaacttc tatttctgtg ttgattaaat 60  
ggcgcgggtgt acatgttggg gctcctaagt tgttcttaga atgctatatc ctataactat 120  
attcttctta tccacagggt atgctatatc tgaagctaaa aacataaagc c 171

<210> 45974  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F3

<400> 45974

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ccaggggttcg tcaggaacga ggcgtgtcgc aatctgaagc ctttcgtcgg ttccgtctag 120

ctgccccct ctgattcggc catggagcgg cagtccagca tccggctggg cgcgctggag 180

aagctgagga gcttccgggg gatggagaag cagaagagct tccgcgggat catgtccctg 240

gagcggctga acaaggacag cccggtgaaa cgcggcgaca cgccgtcca cctcgcggcg 300

agggccggta gcgtggccca cgtgcagaag atcctcgcgg agc 343

<210> 45975

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G2

<400> 45975

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aaaattacca catcaaaaca caaaccggaa ctacattgaa atctaaccga ttttagacta 120

aaaaccggct tatcgggatc ctaaaacata ggtgttagtg tgttacagag accgaactag 180

cgggttcaca catctggcaa ggcctgtttt cacctactag ccttattttt ttattgcaga 240

ctctaaacat catgatgcat taaccctaga tggaggtcct tgggcatgcc catacatttt 300

ttccccatat tcatgccgtc ggatgccgta gatgccgcat atagcatcaa tgcaactatt 360

acatagagga attaactaca cgta 384

<210> 45976

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A8

<400> 45976

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agattttccc gccaccacgt gtgcaacacg cctccactac cgcaccacaa aacccgcac 120

cactaagtac tcctataaat gcctacgagc gtgcaggcac taacactacc aatcaggaca 180

agactcgaag cccgcacaac gaaacgcgat ttacagcagc taaagctcct gtggacatta 240  
 tgatcatgcg cctcctcctg tcaattctcg aagtgaacc ccaagccacg agcagacact 300  
 gctccacaga cacaccttcc ttggttctct ccc 333

<210> 45977

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-H2

<400> 45977

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 cttgaggaga agattcatgc aagagagtta gaaataagca atttgcaagc caagtcaaag 120  
 gaaactgaag aagcagaact caaaatgctg agaaagagtt tgaatttcaa ggcaacacca 180  
 atgccaaagct tttataagga accaaccctt gccaaagggtt aattgaaaaa gatcccccca 240  
 accagagcta aatcaccaaa gcttggtcgg tctaaaaaca agtccatata agagactgaa 300  
 gaaaatacta ctacggacca acctgtccgt ctgagccttg acg 343

<210> 45978

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-H3

<400> 45978

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 agtggatggt taatttcctt acttacttta ctcaagcatt cgacatgaat agcacactat 120  
 tagggaacct aaattcaaca ctcttgccga agcttaacaa ccatgtgact ggaaaaaccc 180  
 taacattatc aaagttaatc gtctagaagc acatcacctt ttttctaact ctcgcaataa 240  
 cgattaaacc ctactgatc gcctttccca acattatgct 280

<210> 45979

<211> 195

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3076-027-Q1-K1-D6

<400> 45979

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cccttataaaa ttcttcaata atatttataaa actaatacta tcaatattca acatttccat 120  
atctccctta ttcccttttt ttcttcattt tgccttcctt tttttactca cccaaaaact 180  
ctattttaaat taaaa 195

<210> 45980

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-F8

<400> 45980

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aaaactgaac aagagctcaa gtccacgacg ttatgtgtca aactctttat acaactacag 120  
catagtttga catggttact ctttttataaa ccaatgcata gtggtcgtgg tgttgcttgg 180  
ccatggccct tcaccaattg ggcccttccc cctcataaca gttaccaacg cacctttgcg 240  
ttccatctcc tggataaatc gcttcacttt tgg 273

<210> 45981

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-029-Q1-K1-F12

<400> 45981

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gcatgaggcg gaagcacgcc ggccgccgacg acgccgacgt ctagggttcc tatcccttcc 120  
atatggattc cctgccgcgg aagcgcaagg gcgcgcgcgc cgagtgtctg ctggccggat 180  
gccgccacga tgcgcctggc ggccgcaagc gcacctgccc gtagcccaag ccgtggcccc 240  
agaagaagaa gccctcttcc gtcgatgagg gctccgactt cgttcgcggc tgcgtggcta 300

tgactgatgc ngtgcgggtg cggccgggaa atcacaggcc gaaccgaact gctgaatgaa 360  
agagaccact cacgctgctg ctgtgtcagg tcagcgacga gacttttctg ccagctgccg 420  
gggaccatcc aaaaccagcc attatagatc aaatcaag 458

<210> 45982  
<211> 190  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-030-Q1-K1-C3  
<400> 45982

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accccttca acacctacca cacctacaca cgcaaccatt atctcaatcc acaacctaca 120  
tcagtcaacc atccacatcc actataccaa caccgcaa ataacctagctg taattaactt 180  
cactgcaaca 190

<210> 45983  
<211> 296  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-031-Q1-K1-B1  
<400> 45983

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cagcagggtcc tagtggaaga ggaccgcaca tgaatagggg tggttctgct cctgaagctc 120  
aagctcagaa tgtcgatcca ttgattgggc gtaaagtgat gagtcgggtg cctgaagaca 180  
atagtttcta tgaagcaggc atatacgaat atgatgctga aacgggcctt catgcactgg 240  
tttatgacat cgataccgca gatgaaacct gggagtgggt tgatcttaaa aaagat 296

<210> 45984  
<211> 397  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3076-033-Q1-K1-H12  
<400> 45984

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aacatgtagt actaccacta ctaacaatct gacccttttt tttctcaaca caacaaccaa 120  
gtgagtaagt atcacacaca acacgcacgc acgcaccccc tgccctcaac atacaccact 180  
tgcttgtagg cagagggaac aacacgcaac actcagatca gacgactaat agagagaccg 240  
agcgaccaat cagcaacgct tcacgcctgc tgctccaggt agctttccat gtccggagca 300  
aggggggagg ttgagcaaatt ggtgaaaatt tcaaggagga ccatcatata tatataatat 360  
aacccttgtc aaaagcgacc cctaaaaaga aaggaag 397

<210> 45985

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-F10

<400> 45985

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ttaaaaaaaaa aaaaaaaaaa aaagggaag ttaaatttaa aaaaaggaaa ggaacaaaaa 120  
aaaatcataa aaaaaaaaaa ataataaaat tggccgcccc ctttaaataa tccaacctta 180  
cttccccttc catccaactt tttatctctt ctattattcc ccctaaattc aattcacttc 240  
ccgccttttt acaacttcct taacttaaaa aaccctttct tcccccaact aaatcccctt 300  
acaacacatc cccctttccc caacttcctt tttaactaaa aaccccatat catattctct 360  
tccaaaaatt tcncatcct taatttttat atttaacccc cccctttttc tccccctttt 420  
atcccctcct tttttttttt tt 442

<210> 45986

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-G1

<400> 45986

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aagataaaga caacagctac ctatatagga ccatgtgggtt atttcttatt tgaacagttc 180  
 ggtaagcatg gcaggcagca aaggggggggt tgcgaaaagc agcagcagga ctcgtagcga 240  
 tctctgaagg acacggcact tgtcaaggca atggaaccaa agcgcttgct aaaccatcca 300  
 cgcgatgatgg tagcaaccgc cgggcgcttg ctctggctgc tggttcatgt ccataatatg 360  
 gtatgt 366

<210> 45987

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C7

<400> 45987

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 agatggggat ctgcctaaag tgggtaatgg tgccagcaaa ctcacgcttg agtatggatg 120  
 tgatcctgtg tcttggtttc gtaagaagat atgagggat atgtatggta ctgaatgatc 180  
 acatatctaa ggagatgaat gagctgaacc taataagggtg tcaacacatt ccgaaactgt 240  
 cagtttgtga ttggcatgac ctac 264

<210> 45988

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H1

<400> 45988

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 aaaaaaattg gttaaggatg taacaaacag agaatttgat gtgttatcag gctatgacaa 180  
 acagatccta catatacaca taataaaaaa aatatatatt attcttaata t 231

<210> 45989

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E8

<400> 45989

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gatgacaatg gttactgcta catggtaata acaatcatta aattgaaaac agagaccttt 120  
aaagcagagc ggaataatcc cttgaaagtc acgacatgat tacattgcag gggaacgaaa 180  
ccaaaccaaa ttttacgcac gcgcgcaacg caa 213

<210> 45990

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-A9

<400> 45990

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atcatcaaaa ttcatacagg tcacaacaat gtacagctac atctactaac tcatgggtgt 120  
atatatatat gacagtggta ccagatcaaa catgtacgtt gttgtgacct gtatgaattt 180  
tgatgatggc tgtgttgttt gtgttaagag tgaattgcaa cagattttga tgcattcaat 240  
gcaacttaat accttgaaga aaaaatggcg taataaggaa aaggccc 287

<210> 45991

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-C4

<400> 45991

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aagggtactat gacaaagatg ttgtcggggg tgtgatattt ggcaactggcg caaacgcanc 120  
atatgttgag aaggcaaatg ctattccaaa atgggagggg gagctgcccc attcaggaga 180  
catggtcatc aacatggaat ggggtaactt cttctcatct catctcccca tcaactgaata 240  
tgatcaagaa ttagataagg agagcttaaa tccaggagaa cagatttacg agaagttaac 300

gtcaggaatg tatttaggtg aaattgtaag gaggggtgctc cttaaaatat cattgc 356

<210> 45992

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-E3

<400> 45992

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gtttacgtct ttacctagta tgtgcaggat ctaacattga aagctgggtt cttacatatt 120  
ttgcgtcgct atctgttacc tgacttttag tacatatgct atatgtaagc atatgctagc 180  
tctgctatgt gtttgattct taaatcagtc agctagaaat atgggtgctga tttctttctga 240  
aatgaatatt tgttgaatta cacaattgca agttatacct aaacctcagg tgagcttcat 300  
cccttcattg tgggtaattg taattattca cttctgtgct ccttgccctt taaggataaa 360  
taatttaact gtaggtttct cttcttactt gaatttgtca tgggttttagg tgccctgtgtt 420  
tctttacatt g 431

<210> 45993

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A9

<400> 45993

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ggacaacaca gaagtgaagc gccaggctta caggcagctt ttgctgacaa ctgctgggtc 120  
tggggaatat atttctggcg ctattctttt cgaggagacc ctttatcaat caactacaga 180  
cggcaagaag tttgttgact gcttgaagga tcagaatata atgcctggca tcaaggttga 240  
caagggtttg gttccattgc ctggatcaa caatgaatca tgggtgccaag gtcttgatgg 300  
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<210> 45994

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B3

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ttctccgtac aaatcgaaag aaattggcac caaaattatg tacttgccgg gtgtctatct 120

accattcact cactcactca cgccaagaag aaggatgcag ttttgagca gaacgcaacg 180

caacagctac ctacctacct ttgacagttc accgtggcgc gggcgctaca cttggctctc 240

caggtccagc tgccggccgg aggacccggc caccaccttg gcgcggcct tgggcgcctg 300

ctgcccgggc gggagcacgg tgcgcgcgcg gcagacgggg caggtggcgc gcgcgcagag 360

ccaagc 366

<210> 45995

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-F1

<400> 45995

ccgaagctac ctcataataa tataattttg agacagaatt cccgtccgaa ttctatcact 60

gcgagcagag gtgattcctt ctctccaaag gggaaaaacg ggatataat aaatacatcc 120

tttggtcggc ggtaataata actacaagt gaatcatatg caatacaaat gcacgatttt 180

t 181

<210> 45996

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-A10

<400> 45996

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tggatgaatat atatctggcg ctattctttt ctaggagacc ctttatcaat caactacaga 180

ctgcatgaag tttgttgact gcttgaagga tcagaatatc atgcctggca tcaaggttga 240  
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<210> 45997  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-A9

<400> 45997

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 tggatgaatat atttctggcg ctattctttt cgaggagacc ctttatcaat caactacaga 180  
 cggcaagaag tttgttgact gcttgaagga tcagaatatc atgcctggca tcaaggttga 240  
 caagggtttg gttccattgc ctggatccaa caatgaatca tggtgccaag gtcttgatgg 300  
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 t 361

<210> 45998  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-E10

<400> 45998

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 acggaatgct cagagccagt tgcagcatca aattataagg atagagaatc tcgagcttat 180  
 gctgaaatat ggcgtagatg tttggaagct ccagaacaga caaatggaat cagttctgtc 240  
 taggatgcaa aagatggctg tagaatacaa tgaaaggata gaaaatgtca atcgagagag 300  
 gaagttccac cagcaaaaata ctggaggaca gctgcatgcc ctgaaaatgg aatggcaaga 360  
 gctgtgtc 368

<210> 45999



<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-052-Q1-E1-D11

<400> 45999

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ttctcattt aagccccgtg tgccttgctc ctcgggtgtt cctccagata gtagtggttc 120  
ctcagtggac tagtgtgaag ctgtgcttag cgtagcggaa gggaggaagg acaaggcaag 180  
gcaactgatg gcggcgggcg gcggaggcgg ctcggcggcg ccgttcgtgt ggaagacgta 240  
cacgatggtg gaggaccccg ggacggcagg ggtgatcggc tggggcagcg gcaacaacag 300  
cttcgtcgtc gccgaccctc tcgtcttctc gcagacgctg ctccccgcgc acttcaagca 360  
caacaacttc ttcagcttcg tcncgcagct caacacctat gtcagttana tcacacactc 420  
gagctagct 429

<210> 46000  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-E1

<400> 46000

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa gggggggcgg cccaaaagga acaaacctaa attacgcgtg 180  
caagcaacgt aaaagccctt caaaagggtc accaaaataa aattcacggg ccgtcgttta 240  
aaaacgtcgg gacgggaaaa acccgggggt aaccaacta aaacgccttg gaaaaaaacc 300  
ccctttccc 309

<210> 46001  
<211> 55  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F12

<400> 46001

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<210> 46002

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A11

<400> 46002

ggtggaagag ctctagagga ctggatcccc gggaagcagg aattcggcac gaggggaaag 60

ttgaggatgt tgatcaggat caagacaatg aagaaaagaa ttagaagaag attaaggagg 120

tgtcgcacga gtggtctttg gtgaacaaac agaatcccat ctggatgaag aagcctgagg 180

agattaccag agaagaatat gctgcttttt acagaagcct tacacatgac tgggaagagc 240

atttggccgt caagcacttc tcagttgacg ggcaacttga gttcatggct gtccctcgttg 300

tctccaagag ggctcctttt gatctctttg atacaacgat acaagcccaa acaacaatt 359

<210> 46003

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B10

<400> 46003

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tttacagggc tatagtcgag tacaagagcg gcaaagacga tcacgtttta gcaacatggg 120

tcacgcagtc accctcggct tcttacatga gactccccac cggggattct gatcgcttcc 180

aaatatccga tgaatgaatc tttgagtcag atacttatgg gaagttttcc acttcatcat 240

catcatcatc atcatcttcc atgggtgctc cttctgctag tactaagatt attttatcag 300

cgggagttca atcgctctgc gtgtctgctc cgtttgacct ctctccgcac ggggccgtcg 360

atacatgaaa ccatgcata cttatgggtt aaactagggt ctgggaattt catgtatgtt 420

gaacatatat atgtatttct gtggacgtta atcattatgg tcgggtac 468

<210> 46004  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-D9

<400> 46004

ctctagacga ctggatcccc cgggcagcag gatttctgta cgaggtcact gtcggtgagt 60  
gcgcagtgagg gatcacttgt ccgctcagtt cagacacgag acggaacttt cccagctgat 120  
tatgttccaa cagtatatgg gatctttagt gccaatgtag cgatggatgg cattagattg 180  
aatcatggac taaggtagac tgccggacaa gcttagcaca ctacgtaca gtcactgagt 240  
tacaaaggat ccgatatgct tctgttgggc ttttcgcata actacaaggc caattaacga 300  
aacatctaca aaa 313

<210> 46005  
<211> 464  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-053-Q1-E1-F10

<400> 46005

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caaaaaagaa aaaactgaaa aactgatact agatgaaatc tgtatcgatt cagctttttt 120  
tttgactga aaactgagta aattgaaaaa aagttgaacc ctgtttttta gagaagtggg 180  
ggatgatgtc taatgagagg cacgcttctt ccaatcctac atctctcaa gaaaatgatg 240  
ctatgttcct tgatatactt catgaagctc cattatttgg tcaccggaaa ccaaggagta 300  
tagttggggg tgtnttttta attggtttca ataactggcc ggggtttttt aaaacgcaat 360  
cttggctgca gcagctcctt ggatatttca gcctcttggg catttagtct taccattgct 420  
ttgcagttgt gatgttggtc ttttaatagt cacatgcatt tttc 464

<210> 46006  
<211> 467  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-053-Q1-E1-F9

<400> 46006

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cctctactta accatgccta tactccagac cagtacggct cattccttat tgataccttc 120  
acaaacttcg tcaagaacct ctatgggttg ggagctagga aaattggggt tacctcactt 180  
ccaccgttag gttgcgttcc attagcaaga acattgttcg gttaccacga gaaaggatgc 240  
atctccaggt tcaataccga tgctcaacaa ttcaataaaa agctcaacgc cgcagcagcc 300  
aatctccaga agncagcatc cctgggtcgt taaggattgg ttgggttttt tttccgacat 360  
attcaaggca ctttacgaca ttgttaaadc tccctcgaac tatgggtttg gttaagcaac 420  
aaaacggtgt tgtggaactg taacagtata gaaatcgcat ttttgtg 467

<210> 46007

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G10

<400> 46007

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tgagccggga taatgagatt aggaattaa agatagtcgt atccgatgcc gagatgaaga 120  
ttttggggga aaaagcgag atcggagcta aggtatcgaa attgttgag aattggagga 180  
gaggctgcac gatgaaatcg aggcgttgaa aacagagatt gctaagagag gtgattccat 240  
taaaattcta aatgaaaacc tcgagacctt gaaatccgag agagatgagc tcaagatgaa 300  
aatcgattta cttggaagaa gaaagttggg ttactaacag ggtggaaatt ttcaaattgt 360  
tgaaatggat aagcaactgc accgattacg tgtggaacac ggggaatta 409

<210> 46008

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B4

<400> 46008

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gagcattggg gggatctaac aggagggacg agtgggaagg aaggtttgga gatttcggct 120  
gggccgagtc tgacgtcgaa tattgggaag cgaccgcttg tcttcttttt tatttgtgtt 180  
aacggatttg ctgccaaactc tttcgtttaa cccaattcg tttcggtcct gattactgct 240  
gcaatctgtt ggtagatttt gagatgtggt ggcttctata caaccagtga tgcacaaaaa 300

<210> 46009  
<211> 60  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-D6

<400> 46009

atcacatctg gattattctg ctggataatg tccgtgtctt tgatgttaaa aaaaaacgag 60

<210> 46010  
<211> 118  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B7

<400> 46010

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 118

<210> 46011  
<211> 137  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C3

<400> 46011

gcgacagcgc gctatgttgc catgaacttt gctatgttga aatgaacgct tgcacgggat 60

gagtgatagc tgctagaggg gctgaccaca cacaactat atctgcttaa tcgttaaaca 120

tgcgcgcaact gtctaata 137

<210> 46012  
<211> 73  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C8

<400> 46012

tatgttcaga gtgttatgtt gtaatgaaca gtgttatgtt gtaatgaacg catgcaaggc 60  
atgagtgata gct 73

<210> 46013  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H12

<400> 46013

aatttttagg gagcagacca tgaagaatgt gtgaatgcag cattcacaga caacgaggta 60  
cagtttggtg aaaccagtga tacaagtgtt gccaaagttc tatttcagg tattacgtcc 120  
gaggagaaat ttgtgggcct cgttaaaagc gagccagaga agtttgaaaa gttcgatggg 180  
aaatttgaag aaaaggaaat tgtgcggttt gtggagctca acaatgttcc tctaattact 240  
ggatttactg agctcaattc ttgtaaaagt tattcaagcc ctatt 285

<210> 46014  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C4

<400> 46014

cccacgcgtg cgcccacgcg tccgaatccc tcatcaagca ggaggatcca gggaaagcag 60  
tctctgggct attcggcaaa gatatctcgc atgctggtgc tacctagaga cgacgcagat 120  
gagcaacaga ataagccaga aacgctactc cgggttgcat catttcgagt aggggagaaa 180  
atcgagcgtt gcaatctgaa atccaccctt tcgcagagtt ttgatcgggc ggcttggttta 240  
cctgacctgc caacttcccc atgctgctat aactttgtgt gacctagcca tgtcaataat 300  
gacagatttt agtgcaaact aatggaccca ac 332

<210> 46015  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-006-Q1-K1-F1  
  
 <400> 46015  
  
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 tatcagactc taaagagcgg cgaatttaca acttactagt gtgtgctggt acatatatgt 120  
 tcaggataga tgatgaacgt gttatagatt ccactcgggt tggaagtta gtccgtctga 180  
 tcaattactc atgctagcct aattgttata tacttgccat aacttt 226

<210> 46016  
 <211> 72  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-007-Q1-K1-G12  
  
 <400> 46016  
  
 cccacgcgtc cgccacgcg tccgccact cgtccgccca cgcgtccgcc cacgcgtccg 60  
 gttctagatc gc 72

<210> 46017  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-009-Q1-K1-B3  
  
 <400> 46017  
  
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 aatggggcgt aggattacac aaagcagaac ggagattaca aaaggggaga acaataccaa 120  
 tggccaaca cagcccggtc ggattacaca aacatgacgc aggctataac ggctaggacg 180  
 acaacagccg atcgacgact agcaccacca gagaacaaca tactcgccag cacatgagga 240  
 ccattgcgca ttcacatggc ccctcgtagc aacgtc 276

<210> 46018  
<211> 132  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B8

<400> 46018

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aactaataag tatcctagga ttaatacttt gatatatgaa aaggcagcga ctagtcaaaa 120  
tgaaaaaata aa 132

<210> 46019  
<211> 93  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D9

<400> 46019

caatttggag ttataaattg aaagttatca ccgtttgaaa ggtaaggtaa agttctacat 60  
gatcccaaaa ctgatttccc ttaattcctc acg 93

<210> 46020  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H5

<400> 46020

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gtcagattac atgtacatgg tgcaggtgaa aaattaaaat cggaatatag ttatgtgtgc 120  
caaccctaat gttaccgttc aagattatga ttatatttgc gtcttcaaata aaaaaaaaaa 180  
aaaaaaaaaa ataaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
caaaataaaa aataaaattt gaa 263

<210> 46021  
<211> 182  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3076-011-Q1-K1-D10

<400> 46021

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atgcgatggt agatgagttt ctcacgtggc tgaaacgatt tagagagttt gcgctagtta 120  
ggctagccta ttatacctta tctggcctca ataacttttt tatatggaaa aaaataccaa 180  
aa 182

<210> 46022

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C12

<400> 46022

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gtgtcaagag tttgctaatt ctgtgttaga tgagtttctc acgtggctga aacgtttcag 120  
agagtttgcg ttagtttggc ttgcctatta taccttatct ggcctcaata gcttttttct 180  
atggaaaaaa aaaataaaa 199

<210> 46023

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B3

<400> 46023

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accaacctgg cgcccagagt gttcgacgcg ctaccgacg tgctctcccg ccgcgccgcg 180  
cgccgagggg gcgcggcgat cacggccgcc ccgcgccac ccagctcgc gctgcctgct 240  
ccgcctccgc ctccgccgct tcctcctcca tcgccaccga agccgcccat cgtccagccc 300  
cgcgctccgc ctctccgct gccgcttccg ggggccgtgc ctacgccgcg gacgtccggt 360  
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gtggcg

426

<210> 46024  
<211> 161  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D11

<400> 46024

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atacatgttg gggctcctaa cttgttctta gactgctata tctataact atattcttct 120  
tatctacagt gtatgctata tttgaagcta aaaactataa g 161

<210> 46025  
<211> 252  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G6

<400> 46025

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tgcacattat cctgagctac attctacata caccaagctt atacagaaaa ctttctgtcg 180  
cttctcctaa aacgaatgct tgagaaactt acacacacct gactgacact cacaggcata 240  
attgtcacc ta 252

<210> 46026  
<211> 55  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C6

<400> 46026

accaggacga atgggcggac tcgtaggcgt acttttggaa aaaaaaaaaa ataat 55

<210> 46027  
<211> 336

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-020-Q1-K1-F9  
  
 <400> 46027  
  
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 tgggggacga gcactagcat ccacgtacgc cgactacgga gagcgatgat tcgccccatg 120  
 acactgttgc tcgtctccgc ctgctgcgcg ctggcggagc cggctgacga ggtcgatact 180  
 gacggtattg tccagaacgg gaacttcgac gatggcccca ccaagtctgc gctgggtgaac 240  
 agcaccacagg tgtccgacgc gcacgccatg catgagtgtg acgacgtccg acttcatgga 300  
 gtacatcgag tacgagccca aagcgtgcga catgct 336

<210> 46028  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-021-Q1-K1-C5  
  
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 tgaggaaaag agattcacag ggagatggca atgggtacct gataccgat gggatatttac 180  
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 tgttcatgca acacacactg tatc 264

<210> 46029  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-021-Q1-K1-F8  
  
 <400> 46029  
  
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 cctccgtga gatccgcaag tatcagaaga gcactgagct gctgatcagg aagctgccct 120  
 tccagaggct cgtcaggga attgcacagg acttcaaac tgatttgcgt ttccagagcc 180

atgcggtgct tgccctccag gaggtgctg aggcatacct tgttggcctg tttgaggaca 240  
ccaacctgtg cgccatccat gctaagcgtg tgaccatcat gccaaaggac attcagctgg 300  
caaggaggat ccgcggccag agggcctaata cgccacctca aacatcgtga cataaacatg 360  
aaatcctggg gttattgtaa atctggtgcc attgtaggga catatgagta gggtttgttt 420  
tgggatcgca agtttctctc tggtag 446

<210> 46030  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-E3

<400> 46030

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tctcctattc tcttcagtag catctatcac gaaaccatgc tgtcagtgcc aacaacttcc 120  
accccatctt tctggaatct gaggtgagct gcatctacct ggatgcacac ctcaccgaag 180  
cttaccggcc agcagtgcc cactgctgca ctcatcaacg ggaactggac cttctgactg 240  
tttaagaaca gatctgagct acacactcat gactactcac att 283

<210> 46031  
<211> 77  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3076-024-Q1-K1-E5

<400> 46031

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ctaaattcag tgtcgcg 77

<210> 46032  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-024-Q1-K1-F8

<400> 46032

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gtgcctcatt cgctctcggg ttacgatgtc ctgtgcgcca ttgtttcggg tgacgcgggt 180  
ccgttagtaa tttgaggcca gggttcgggg attttctcgg ctgggactat tgtttcgggtc 240  
tcttcttaat gttataccgg gaggggtgggc attccctctg tcgagttatt attctctgga 300  
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<210> 46033

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-025-Q1-K1-B7

<400> 46033

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atcgctactc gtaaatecct cccccacct caacttaata acattgcac acattccccct 120  
tttgccaact ggctccttac cgaaatcccc cagtctgata acatttctca acatttgatc 180  
aggatgaatg cctaatagaa cccgccctgt aacatcgac taaactcgaa aactgttttg 240  
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<210> 46034

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-025-Q1-K1-H1

<400> 46034

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cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240  
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ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcc

343

<210> 46035  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-027-Q1-K1-B12

<400> 46035

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acaccaaggg ctcaacggtc gacacaaccc gtgaagttgg ctgaaccatg catttcccca 120  
tgttgaacat ccaccagtgg tcacgcctca tgcacgggtt gctccatttg atctgcacaa 180  
gactagacaa ggaattgcct ttaagatctt ctgggtccct agtggatata accagtccat 240  
ctcctgtgca attgagcttt ccattgcccg ctatccatga gcatgtgtta caaactcgac 300  
catcgtctcc ggttaatgaa ttgctacctg tgcatataga gtgcttgcta gagggatc 358

<210> 46036  
<211> 335  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 46036

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aatccatggc catccatgaa tactgtaaag cacaccacc ctttttattt atttatgaca 180  
tgggcattcc aaaaccgca acccatatgc atacatatgt atgtaaatat atatttcacg 240  
gattgacttt gaaggcaaca caccgaggtc caaatcctt taagatcttg tattccctga 300  
accctgtttt ggtgaaaagc tgaccccat ttttt 335

<210> 46037  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-028-Q1-K1-C5

<400> 46037

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ggggactatg ggcgcaaggc tcgctg 146

<210> 46038

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-029-Q1-K1-C11

<400> 46038

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gcttgccaag gtaaaccttg ccacgttccg aacatgattc agatgatgtg cggaacgtgg 120  
cagggtttac cttgggaatg atggaatgat gggcagtgga aaggcttggc ataggattgt 180  
gtcgcagtgt cagactgagt tgtatgagaa tactgagtat gcttggcact cctgtatata 240  
gcatgcttgc caaataaaat aatttattat aataatat 278

<210> 46039

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-A2

<400> 46039

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agtatagatt ccaatctaac gaacacaatc atacaaacct ataaactcta acataaaact 120  
acctaaatct aaatcatctt accaaaattc tacaacatct attacttaca aaaccctact 180  
tttacacaac ttaatcgctt tccacaacat cctcctttat ccaactgccg tattctctaa 240  
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<210> 46040

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-G6

<400> 46040

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tgatggtgat tacattgagg ggtggtcaag attcacttat ttatgtttct tcaccctttc  120
ctggactcgg cgactttttt catgtcgaac tctgaatttt cttattcaac agaagttgat  180
aaaaaaggac ttctgtgta aaaaaaatac aaataaacta aatgaatatc tagactagac  240
aaaaaaaaac aa                                     252

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<210> 46041

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-030-Q1-K1-H11

<400> 46041

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ttttctcagg caaacctttt tgagttcaat tcagccagga caactatagg tttggatata  120
ataatagtac atagattgga ttgcttggtta aagctcaata ttggtattga agtggtattg  180
ctt                                             183

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<210> 46042

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-031-Q1-K1-E3

<400> 46042

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agaaagaaga ccatgtaaca aatattgaag gaatgcgtga agctataaag acgcttcata  180
gaaaacagag acagttagaa gacgaagagg caaatataca caggcagaag gaagaaatta  240
ttaatgcgat gagataccac aagaagacac gagaagagat acaaagacgt gttgatatca  300

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aaaagcgaat actgaaggac atatccagag aagacgatgt agaatccagc acgagaaagc 360  
 ttgttaatca ggttgctaag ataaatgatg agaggtttca tgcaatgata aaacttaagg 420  
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<210> 46043  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cagataccga gttctcatcg agatcaagtg gctactgaaa ctttctcaaa ttcctgagat 180  
 cactgaagtg cctcagttca tcaaggaagc acattccttg ttaaatgcc aatttgataa 240  
 tttttacatt agatgaatca aaagaagtta ataaaatcta aaaagttacc aaccatgaag 300  
 tgaaaaccct aaaatacctt cttaaacaaa tggtacattt caaattcata aattgcaa 358

<210> 46044  
 <211> 359  
 <212> DNA  
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<223> Clone ID: LIB3076-033-Q1-K1-A10

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 cctttttttt cttaacacaa caaccaaatt attaagtatc acacacaaca cactctcaca 180  
 caccactgc cctaaacata caccacttgc ttttacgcac aaggaacaac actctacact 240  
 caaattaaac cacttttaaa attaccacgc cacctattca tcaactcttc acccctgcct 300  
 ttccaagtat cttttcatgt cccaacaag cgttaaactt tcccaaattg taaaaattt 359

<210> 46045  
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 cccggcgtgt tcccggccat cgacttcagc tccgcgccgc cgccgaagga cgctccgccg 180  
 ggcattgccc cttctcctct ggactgagtg aattaggcct gccagcacag acggattttt 240  
 ctgtctatat aggctccaga ttttgctgt aagggaacag cattctttgt aggaagtga 300  
 ccggaccccg ttctgcgtt caaaaaaaaaa aaaacaaaat aa 342

<210> 46046  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-033-Q1-K1-H9  
 <400> 46046  
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 cctaacttaa attacaaaat gggaaaacaa taccaatggc ccaacacagc ccggtccaat 120  
 tacacaaaca tgacctatgc tataacggct aggactacaa cagccgatcg acagactatc 180  
 accaccagag aacaacatat tcaccagcac atgaggacca ttgcgcatcc acatggaccc 240  
 ttttagaaac tttgctccac tgccatgcgg ccttctaagt gagggaccgc gcaagcgta 300  
 accgatccca aaaaccatga tctaccttca aaccggctgc aacacccgac agagcatcct 360  
 agctccgaat gccacca 377

<210> 46047  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3076-034-Q1-K1-B11  
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ttctgtaa at ctttcggtac tgttgggtttc atatttagaa aattcacaaa gcggccactc 120  
aattctcttt ttggaaagta actttatttt tttttcaa ac aaaaaaaaaa aaaaacaaaa 180  
aaaaaaaaa aaaagggg cg gccctagttc tagatcgca 220

<210> 46048

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-A1

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tcaaagcaca ggtcaaaaac aaaacaagct ctccatacaa tacacctatc aaaaacacta 120  
ctttccctat ttacaaatac ttccgttttg tcccttacc caagaccaa atctaccata 180  
ttcta atgaa taaaaaagtc ttgattaat ttccctacta ttttcacctt ttttcttggt 240  
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<210> 46049

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-B11

<400> 46049

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tgggggaggt cctcctaccg tctgccttaa ccgcttaa at caggtctgtt agcatttccg 180  
cttggttaaca acttgagat caaagaaatt tcaccagaca atacaggga aatggaagg 240  
tcaaacaatt aaaacatgga ttaatctgcc cccaaactgt atctttagt acagaccca 300  
aactctctg tcgctggggg aaattctgcg ggaagaaaga cgagcaagag gatcattctg 360  
gcctgtcaag gggctacaca aagcagttct gagattagct tgggtggaac gggatatgcg 420  
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 taaaaa 186

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 <212> DNA  
 <213> Zea mays  
  
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 tagtactcag cgcaagctac cattattaca acaattcatg acagccagca tctcaagcac 180  
 atactgacaa ctcaacctct attagcgctg caaatggcac ttgtcacact aacacttacc 240  
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 cctt 304

<210> 46052  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-A1  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-B11  
  
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 aataggtggt tttttgcgct gggaaaagt tacgcttgat gcataataat ttgtaggacg 120  
 gcaacgctct agagcgcagg ttttgttcac ctctgtacc gaggaatgct taaagttaca 180  
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<210> 46055  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-B9  
  
 <400> 46055  
  
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 caaaaataca aaaaaataaa aaaaaaata gggtcaccta tattcaattc actgggttcga 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-D9  
  
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<210> 46057  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3076-038-Q1-K1-H12  
  
 <400> 46057  
  
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 cctctgcgcc attcacgcca agcgcgtcac catcatgccc aaggacatcc agctcgcccc 180  
 ccgcatccgt ggggagaggg cctaggcgctc gtcgcggttg aggtggaagt agtagtcgca 240  
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 <212> DNA  
 <213> Zea mays  
  
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 accatatatc aaaatatata agataataca gataattgga ggatgttaat acagtgcagt 240

at t t t t g g a t g c t g c g t t t t c a t g g g g g g c a a a c a a t t t

278

<210> 46059

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B9

<400> 46059

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c c a c g c g c g a c a c g g a a c t g c t g a a g a t g a a g g a c a a g c t g g c g g a g g t g g a g g a g a g a a 120  
g a c t a a g c t c g t c g c g g c g g c g g c g g t g c g g c g g c g g c t c a a c g g g c g c a t g g a g c a g 180  
c a g c c c g a g c t c g t c g t c g t t c t c g a c g g t g a c g c a c c a c c g g c c g c g g c g t g c a t g t 240  
g g g g c a a t t c g g a g t g c a g c c g g a a g a g g c c t c c g a c c t c g c c t a c a t g a c c g a g t a c g c 300  
c t a c a a c a g c t a c a t g a a c a t g a t g g a c c t c g c g c c c g g c t a c t t c g g c c g a g t c t t c t a 360  
c t a c t a c t a c c a c t t c a a c t g a t c c a c g a g c a t g c a a g a t g a a g a t g a a g a a g c t a c a a 420  
g a c g a a t g a a g g a t t g a c t g g a c t a t c a t c t a t g t a c t a t t t t 463

<210> 46060

<211> 304

<212> DNA

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<400> 46060

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t t a a g a c c a t g a t g c a t t c t a t a c c a a t c a c t a t a c t c t a c t a t a t t g a t t a c t t a c g 120  
a t c a t c a g a a t t a g a t t g a c c a c t a a t a c t c a t g c t g c t c c a c t a t t a a g a a c t t g a t t a 180  
t c a t c a c t t a a a a t g t c c a t c a a t a t c a a a t g c t a c t t t t c t a a c c t t a c a c a a t t a g c a 240  
t t c t a c a c a g g a a a t g a t c c t a a a c g a c c t a a t c t t t t a t g a t g g a t a c t a c t t c c a a c a 300  
t a c t 304

<210> 46061

<211> 410

<212> DNA  
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 gggtttttggg ttcaggggtg tggccttgga ccttcatttc acaaagctta acatggattc 180  
 aatcattaat gcttatgagc tttcagagag cagggtctata ttgctcgatt atgatggaac 240  
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 <213> Zea mays  
 <223> Clone ID: LIB3076-042-Q1-K1-C1  
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 agaaaaattt aaa 73

<210> 46063  
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 <213> Zea mays  
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 acacatacaa tctatataat cattctcttc gttcatcgat ctatcatgaa aactactcac 180  
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<210> 46064  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tntctgcttc atttgccact tcaactccggg aggaggaaga gagccaagat aaccctttct 180  
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agtacttctt ccttactagc gataacccga tattctctga tcaccagaaa atccctgcag 480  
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<210> 46065  
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<212> DNA  
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<223> Clone ID: LIB3076-043-Q1-K1-H9-R2

<400> 46065

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agcacgatcc actctgcttg tagatcagct acataactct ttcaccacac ccatagaacg 180  
taagcccaa cagctcttta ccgtccagag ctctaccgat gctgcttatg acattgtccg 240  
tcttacctgc aaagaggttc ctattgatga tattaccatt gataccgaaa ccagagaaat 300  
tcacgccgga cgtagcctgg atggctactg gatatgctgc tgagattaca aatacatagt 360  
gcctacaaag ctcagctcta gaactctcaa atgacaacgg ttccttactc tctttatggc 420

caaccaagtg cacacagacc catccttcaa taaccactat gataaccatg agcttacaat 480  
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 <223> Clone ID: LIB3076-044-Q1-K1-E3  
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 <213> Zea mays  
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 <400> 46067

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 ggcaagggtt 69

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 <212> DNA  
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 gctcgtgaag gtggcgctgc tcggcggcgc ggggctctac gccgtcctca acagcttcta 180  
 caacgtcgag ggcggacacc gcgccatcgt cttcaaccgc ctcgagggga tcaaggacaa 240  
 ggtgtacccc gaaggaactc acctgatgat cccgtggatc gaaaggccga tcatctacga 300

cgctccgcgcc cgaccecaacc tcgtcgagag cacctccgga agccgcgacc tccagatggt 360  
gagaattggt cttc 374

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B7

<400> 46069

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ctatctacca ttactcact cactcacgcc aagaacaaag atgcagtttt ggagcattaa 180  
cgcaacgcaa cagctaccta cctacctttt gcaattcac 219

<210> 46070  
<211> 244  
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<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-E12

<400> 46070

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gccactactt ataaaaccaa atcgtcacca tatcttacca ccaacaacac taatctgaat 120  
aaacatcatg ccatatacac aaacattctc caaccaatct actcaagcaa catgtacacc 180  
cacatttaaa gctaccggaa tatccatgaa caccgcctta tccatcacat ggtatcatat 240  
tcac 244

<210> 46071  
<211> 181  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F9

<400> 46071

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cattcatctt cctacacctt acttaatacc taatattccc acacctatca actcttccaa 180  
c 181

<210> 46072  
<211> 320  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 46072

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ctcaaagaga tcaangccgt ccccggaagac gaaggttacc gcaaggccgt tgaatccttc 180  
accggtcacc gcctccagat ctgccaggag gaggaggact ggaagcgcac cgaggaccga 240  
atcggatgcg ggcaagtcga ggagctcatc gangaggccg aggacgagct caagctcatc 300  
gctaaaatga ttgaatggga 320

<210> 46073  
<211> 121  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 46073

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gtcatgactg agaaacaact ctcttttccc aactttatct ccttgcaaca caacccctt 120  
t 121

<210> 46074  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 46074

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ctaacggtga tagtatacctt gcagattctg gtacggagca acttgaattc atagctctgt 120
cacagaggac tggagatccc aaataccagc agaaggcgga gaacgtcatt aaacagcttc 180
aaaagatata tccaagtgat ggtttactgc ctatttacat aaatcctcat tctgggacag 240
catcatactc aactatcaca tttggtgcta tgggagacag cttctacgaa tatttgctca 300
aggtctggat ccagnngaat aaaactgagc atgtaaaaca ctacagacaa atg 353

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<210> 46075  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-B10

<400> 46075

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tactgtggaa aggattatta tgcgagctgt ggatgagctg caagctcttc aagatgaacg 180
gaagaaagtg gatcctcaga aggccgaaac tatcgatcaa tttttactga aattgagatc 240
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<223> unsure at all n locations  
 <223> Clone ID: LIB3076-052-Q1-E1-B3

<400> 46076

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agcaggatcc accgccttgc ccgctactac aagcgcacaa agaagcttcc acccagtggt 180
aagtacgagt caaccactgc aagcactctg gtggcctaag cgaggagctc agcgtcgggc 240

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gcttgaagcc gagggcattg ttggaaatca tttttatgta ccgttttaag agtttggagt 300  
gaactagaga tgggtgaatgt ccttcctctg gaggatgccca tggacccttt ttgtttacat 360  
anaactgccc tgctg 375

<210> 46077  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gggcgccccca aaagatttca tccttagtta cccttaaatt aaatttcaga ccctttcttt 180  
ataatcacta aaattaaaaa aaccggcggt tttttaaaat attctcgctt ggaaaaaccc 240  
ccctttttcc caatttagtc tcattaaaaa aaatccccct tttatcactt ttc 293

<210> 46078  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C1

<400> 46078

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ttggtctgcc gaatggtaaa ttgtcgaact gtatgtagat tagcgtctaa aggcactaag 180  
tataagtaga cctggggg 198

<210> 46079  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A2

<400> 46079

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gacctcaacc ttgtgaaagg gcgggggtgg gctcttcttc gtgagaagat gggtgaggca 180  
gcatcggaca agtttattgt tattgttgac gagacaaaac tagttgatgg gttaggaggt 240  
agtgggtctag ccatgccagt ggaagttgtg cagttctgct ggaagtacaa ccttgtaaga 300  
ttgcaggaac tgtttaagga ggaaggagtc gaggcaaagc taaggtttga aggcgacaag 360  
ccctatgtta ctgacaactc aaactacatc gtcgatttat acttcaagac gccaatcaag 420

<210> 46080  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F4

<400> 46080

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ccagtgactg atcttccgtt ggatgtacat ctgatgattg tggaacctga gcagcgagtc 180  
cctgatttta tcaaggcagg tgctgatatt gatagtgtcc actgtgaaca gacatcgacc 240  
attcatttgc accgaacagt caatcagatt aaaagtctat gagcaaaggc aggagttggt 300  
gtgaatccag cgactgcact cactgcaatt gattacgttc ttgatgatga tgacctgggtg 360  
ctgattatgt ctgtgaatcc tgggttttg 389

<210> 46081  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-B10

<400> 46081

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aaccgggttt atctctttga cgaaggatcg accatcagct gggcgccttg tggaagaaag 180

ctcacatgct cttaccctgg catcaaattt tcctatggcc cggacactta cttcggaaac 240  
gaggtatctg ttctggagat ggatgggcaa ttcgacagac tagatgagct catctacgtg 300  
gagagccatc taagcaacct ttcaaccaag ttctacggag aggtgacaca acaaattgcta 360  
aagcatgcag actttccagg tagcaacaac gggacaggtc tctttcagac catcattgga 420  
ctgaag 426

<210> 46082  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E8

<400> 46082

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gtacatctga tgattgtgga acctgagcag cgagtcctccg attttatcaa ggcagggtgct 240  
gatattgtta gtgtccactg tgaacagaca tcgaccatcc atttgcaccg aacagtcaat 300  
cagattaaaa gtctaggagc aaaggcagga gttgttttga atccagcgac tccactcact 360  
gcaattgatt acgttcttga tgttggtgac ctggtgctga ttatgtctgt ga 412

<210> 46083  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H3

<400> 46083

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gacgcgtcgc tcagcatggt catgggcgac gacatggtca aggtcgtcgc ctggtacgac 180  
aacgagtggg ggtacagcca acgcgtgggt gatctggcgc acctggtggc ggccaagtgg 240  
cccggcgcgg cggcggccgg cagcggcgac cctctggagg acttctgcaa ggacaacccc 300



gagaccgacg agtgcaaggt gtacgaagca tgaggccagg gttctttcca cgacgaaacg 360  
tacaacacgg g 371

<210> 46084  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3078-002-Q1-K1-B8  
  
<400> 46084

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tgcaaggaca accccgagac cgacgagtgc aaggtgtacg aagcatgagg ccagggttct 180  
ttccacgacg aaacgtacag cacgggcgcg agggttcttt ccatagagaa taatatacag 240  
attatcgcg caaagagacg tatgttatat atatgagttg tatgcagtca ccgaactggt 300  
acaggcttcc gctttccatt tcctgttggg agtcgtgtag tgtaatcctg ggggtgtgat 360  
ttggttcac aatcatgcc gccgatttga atctcgtttc accagcatga tctgat 416

<210> 46085  
<211> 444  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3078-055-Q1-K1-H5  
  
<400> 46085

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caccocgaac gtctccgtca tcgacctgt cgtgcacgtc tccaagaaga ccctcgccaa 180  
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cgctccctc accatggtca tgggcgacga catggtcaag gtcattctct gggacgacaa 360  
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 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3078-056-Q1-K1-D5

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 cgagcttggg actcttggaa ggcaagactc tacctggtgt ccttgccctc gatgacgcct 300  
 agatccgctg ctgctgtctg tactcaggtt ctgccagctt tgcgtgtcat cttgtttcgg 360  
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 ggcttgccac cgtgttttgc tagatgagtc g 451

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-003-Q1-K1-G10

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 gaaggaactc gactaccttg tcggagctgt ttcaagccct aaacgccctt ttgctgccat 240  
 cgtgggtggt tcaaaggtgt catccaagat cggggttatt gaggccctgt tggagaagtg 300  
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<210> 46088  
 <211> 403  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F7

<400> 46088

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acaagggtctc cctgtttggtg cttcattggt cgaggaagac aaactcgagc ttgcaacgtc 180

tctacttgca aaggctaagg aaaagggtgt ctcccttatg ctgccaaccg atgttgtcat 240

tgctgacaag tttgcccttg atgctaacag ccagattggt ccagcatctg caattcctga 300

tggttggatg ggcctggata ttggcccaga ttctgtcgct tcattcaacg caagcctgga 360

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<210> 46089

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-G10

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ttgaagagtt catgtctgct gttaagcaat tctatggtga gaaagtcctc attcagtttg 180

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 tgacttcgaa ggcattttcc gtgctatgga tggactcccg gtgaccatcc gactcctgga 180  
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 aaacccgatg cttggcttcc gtgggtgcag gcttgggtata tcgtaccctg aattgacaga 360  
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<210> 46091

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-A1

<400> 46091

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<210> 46092

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D10

<400> 46092

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 gtggactcaa agggtttgat tggtgactct cgtaaaggct cccttcagcc attcaagaaa 180  
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 gccatgtctt ccttcaacga gaggcctatc atcttttcac tgtcaaacc aacctcgcat 360

tctgaatgca ctgctgaaca agcatataacc tggagtcagg gccgttcaat ctttgccagt 420  
ggcagt 426

<210> 46093  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H1

<400> 46093

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aaccttggtc tatattctga aagggttggg gcgataaatg tcgtgtgctc agcaccagaa 180  
gttgagata gggtaaagag ccagctgaaa cgattggcac gtcccatgta ctggaacccc 240  
cctattcacg gtgccaagat agttgccaac gttgttgggt atccaatcat gtttggtgaa 300  
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gacagtttgt c 371

<210> 46094  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F11

<400> 46094

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agctgcatcg accgctgttt cgatagtgga tgctattaga tccctcgtaa ctctacccc 180  
agaaggtgac tggttttcta caggggttta tacgactgga aatccttatg gcataatcaga 240  
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tgatgtgttg atggacgatt ttctctggga accgattaaa aagagcgaag ctgaattgct 360  
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<210> 46095  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 46095

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cacgaccttg cgcgccatcc cctggatctt ctctgggacc cagaccaggt tccacctncc 180
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ccaagtcttc aaagagatgt acaacgagtg gccattcttc agggtcaccc tggacctgct 300
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<210> 46096  
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<400> 46096

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 caaggtgacg cccagccgc cgctgtccaa ggagtgcgc gacgagaaca agcccgcccg 360  
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 tcactctcac catgaaggc atcgccgccg gcatgcagaa cactggctag gcggcttctc 180  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F1

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tggttttctg caagggaaac cccggctttg ccggtttgat taacaagctg cttgtggcgg 180  
aggaactcaa gccttttggg aagcagttca gggacaatta cttgaagaca cagcagcttt 240  
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<210> 46100

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D12

<400> 46100

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cgggggttcgt cgctcaactg tgacggcatc cacctgacgg aggcggcgta taggaagatc 180  
gccgactggt ggggtcaacgg gggctacttg caaccgggtca ttttgggcta aaagcttgtt 240  
cgggaaccgg ggttcggggc ttggttgggg gtccgttggc ccttaagggtt agggaagggg 300  
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<210> 46101

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C9

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cgacgagttg atcaggagcc tcaaagcgaa gtgggacgcc gttgaggaca agcccaccgt 180  
cctcttgtag ggcgggcgcg ccgtcgtcgc cctatggctg acgtccgtgg tcgtgggcgc 240



catcaacgcc gtgccgctgc tcccccaagat cctggagctc gttgggctcg gctacaccgg 300  
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<210> 46102

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C1

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cagctattcg gttcttcgac aaagcgattg gaattaatgt tccccgctca aggtttctcc 180  
cagtgaaggc tacatctgat ctgttgcttg tgcagtctga tctttacacc ttggttgatg 240  
gctttgtcat ccgcaaccca tccagagcga atccagctaa cccttcaatt gagcttggac 300  
ctgagttcaa gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatagttg 360  
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<210> 46103

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F5

<400> 46103

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cttttctaata tttcttctat ctctatccag gtgaatgaat ttaaatcaat cgagaagttt 180  
aagatattca aactaaciaa cttgtgggtg aaccttaaag ctatcaagag actcgtagag 240  
gctgaggcac ttaagatgga aattattcca aaccccaagg aagttgatgg tgtgaaagtc 300  
cttcaactcg aaaccgcagc tgggtgcagct attcggttct tcgacaaagc gattggaatt 360

aatgttcccc gctcaaagtt tctcccagtg aaggctacat ctgatct 407

<210> 46104  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D6

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attgctaggc tagctgcagc tcaggtgctt gtctgaggct gcctcctcgt tggcaaccgg 180  
attgcctgct gctggtggat gtggtgatca acagtattat tacagagcca tgctatgtga 240  
acattactag tagcagtgct cataaaagct acaatcccat ctcccttttt tttccagtca 300  
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<210> 46105  
<211> 303  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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accaggggtgt tcaagtgttc ccagagataa tggttcctct tgttggaaca ccacaggaac 180  
tggggcatca agtgactctt atccgccaag ttgctgagaa agtgttcgcc aatgtgggca 240  
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atg 303

<210> 46106  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A6

<400> 46106

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cagcccttat tggcgatctg ggaactttca tggcctgtgt ggatgatgtt agaaagctca 180

aggtcctggc taacgccgat acccctgatg atgcattgac tgcgcgaaac aatggtgcac 240

aaggaattgg attatgccgg acagagcaca tgttctttgc ttcagacgag agtgataacg 300

ctgtcaggca gatgattatg gctcccacgc tagagctgag gcagcaggcg ctcgaccgtc 360

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<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E2

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aggcttggtg tatcgtaccc tgaattgaca gagatgcaag cccgggcat ttttgaagct 180

gctatagcaa tgaccaacca ggggtgtcaa gtgttcccag agataatggt tcctcttgtt 240

ggaacaccac aggaactggg gcatcaagtg actcttatcc gccaaattgc tgagaaagtg 300

ttctgcaatg tgggcaagac tatcgggtac aaagttggaa caatgattga gatccccagg 360

gcaactcttg tggctgatga aatagcggag caggctgaat tcttct 406

<210> 46108

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G2

<400> 46108

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cggtgaccat ccgactcctg gaccctcccc tccacgagtt ccttccagaa gggaacatcg 180  
 aggacattgt aagtgaatta tgtgctgaga cgggagccaa ccaggaggat gccctcgcg 240  
 gaattgaaaa gctttcagaa gtaaaccoga tgcttggtt cegtgggtgc aggcttggt 300  
 tatcgtacct tgaattgaca gagatgcaag cccgggcat ttttgaagct gctatagcaa 360  
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<210> 46109  
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 <223> unsure at all n locations  
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<210> 46110  
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 <212> DNA  
 <213> Zea mays  
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ccacgtttga gctgaagcat catgcgctcg accgtctctt gccgtatcag aagtctgact 180  
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agactgtagc ca 312

<210> 46111  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-052-Q1-K1-H5  
<400> 46111

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aattgacaga gatgcaagcc cgggccatct ttgaagctgc tatagcaatg accaaccagg 180  
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tcgggtacaa agttggaaca atgattgaga tccccagggc agctctgggtg gctgatgaga 360  
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<210> 46112  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 46112

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caacacccgc cgcaagggtg actggctcac tgacaagatg aggagcaggg accacaccgt 180  
ttctgccact catggtgaca tggaccagaa cactagagac atcatcatga gggagtccg 240  
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gcagggtgtcc ctgggtcatca actatgatct tcccacccag ccagagaact acctgcatcg 360  
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cgacgaacgt atgctgttt 439

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<211> 322  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3078-018-Q1-K1-G6  
  
<400> 46113

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gcacaggcag gatcaccggc caccgtagct cgactgcaag ggcacaagcg agggccaggc 180  
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aggcacctac ggacgactgc tc 322

<210> 46114  
<211> 350  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3078-018-Q1-K1-G8  
  
<400> 46114

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<211> 339

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-018-Q1-K1-G9  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccttagtcgc cgccatgacg accggtcca cctcgcaggt gcgccagaac taccaccagg 240  
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 <213> Zea mays  
  
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catcgggcgc ccgtggtcgg aggccacgct gctgcacctc gcctacgcca tgcaggaggg 180  
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gctccagcga gcatcgatcc ggcagattgc tctctatgag gcgcgcgggtt gctgattgca 300  
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<210> 46118  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-018-Q1-K1-H6  
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<210> 46119  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-018-Q1-K1-H7  
<400> 46119

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<210> 46120

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H9

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gtacaatgcc accatatcag caccacacat gcatgaggct tgcttgagc tactggagaa 420  
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<210> 46121

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E9

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ccaaggagga gaacgtcacc cttggaccca ctgtccgtga aggagagtat gtctttggtg 180  
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gggaaactct ggttcggatc accggtggca tgaaggtgaa ggctgaccgt gacgagtcgt 300  
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<210> 46122  
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<212> DNA  
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<223> unsure at all n locations  
<223> Clone ID: LIB3078-018-Q1-K1-F10

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ggggaatcga cctgcctgac caactgcgcc cagaggttcc tcgacatgag cgtgctgatt 300  
gccaaacgct tcgagatgca gtgaggcggt gtcactcgaa gctgttgctt ggtcaatcgc 360  
cctaagctnt tcctttgatt tgaggttcca ttgaggactt cggacgattc aacacaagag 420  
tttagtgtat ntnttttatg tcttacct 448

<210> 46123  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-F11

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gctgacagct gagttttag ttcacctca gcccggtac aatacattgg aggacttttg 180

ggatggtgaa atataaaagc atacaaatth gttcagaata aaagagccag gcgaggaaac 240  
aaccacaaaa aaggggagat cgaatgcata ggccccaata cgatgaatth gggggtttac 300  
gtgattgctg aacacaagta ttgtgtgact aatctgtgtt ttgatgtggt aaatgtaatt 360  
gggttagtca caataagaga taagtgtctt tgccacaaga cttttggttc attggttgaa 420  
gcatgatgta aaccgtaaa 439

<210> 46124  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 46124

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gctgctctgc atacaaactg gtctgtact acaccagctg gtcccagtac cggaaggcg 180  
atgggagctg cttcccagat gcccttgacc gcttctctg taccacatc atctacagct 240  
ttgccaatat aagcaacgat cacatcgaca cctgggagtg gaatgatgtg acgctctacg 300  
gcatgctcaa cacactcaag aacaggaacc ccaacctgaa gactctcttg tctgtcggag 360  
gatggaactt tgggtctcaa agattttcca agatagcctn caacaccag agtcgccgga 420  
ctttcatcaa gtcagtacc 439

<210> 46125  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-F5

<400> 46125

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tcatcttcgg cttgcccggt gcatatacag gggctctgtt cacaagcgca cgctcctagt 180

tacaagaaga atattgacaa gttgaaagca aaaggaatcg actctggtat ctgcgtagct 240  
gcgaatgata tcgtatgtac tggatggatg ggcaaaaaag ctagacgctg aagatacaat 300  
tgagtcttat ggcgactatg atgggagttt ccacacacgc ttggatatgg agatagacct 360  
ttctgctgct gtgcttggcc gccgatctca cagggtggctc gcctttgttg acgatggtaa 420  
gatcaagtgt ttcaatgt 438

<210> 46126  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-F6

<400> 46126

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catcgtggaa gtcttcgggg tagatggttg actgaaaagc tctcagtttc aggctttcag 180  
cctctccttt cttagcactc gtccaagtta agcatcagga gaaacgttga taatctcaga 240  
accaggttac taattaccta actgaagatc atagcatgat tccagctatg actcgatgta 300  
ttaactgaca tccttacctg cgaattaaca ggggcaacca atttccaact caatttataa 360  
ccttttctat aataaagaaa ccagtgatgc acattgtagt tcacagctag cacttatgat 420  
acgcacatgc act 433

<210> 46127  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-F7

<400> 46127

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cggggaaact atagctgata aagttacagg aacaccattg ccactatca aagtggagga 180  
gccaacagtc agaatgtctt tctccatcaa tacatcacct tttgttggac gggaggggaa 240

atatgttact agccgaaatc tccgtgacag gttgtatcgc gagctcgaaa ggaatttggc 300  
 tatgaaagta gaagacgggg aaactgctga tacatttctt gttagtggca gaggcacact 360  
 acatctcaca atattgatag aaaatatgcg gagagaagga tatgaattta tgattggacc 420  
 tccaaaggtc ataaaacag 439

<210> 46128  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-018-Q1-K1-F8  
 <400> 46128

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 atcaagaaga agctggcgaa gaagatgcmc cagaaccggc ccatccccta ctggatccgc 120  
 atgcgcactg acaataccat caggtacaac gccaaagcga ggcactggcg ccgcaccaag 180  
 ctcggtcttc gagcgtcggg attggccggc tgctgcgtcg gaaggctagg gtctaagagc 240  
 tatcttcctt ctgttttctc aatgtgtcag tttttctgta agctagcaag tgttgctatg 300  
 acgcttttat taagattctg gtgagcggcg atgttaagag aaaattggca ctactgtggc 360  
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 t 421

<210> 46129  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-018-Q1-K1-G10  
 <400> 46129

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 gccccagatc accccttcct actacaccac ttctgacgct gtcatttcca ctgagaccgt 180  
 cttcattgtg gagatctccc tgacatgcaa gaacagggtc cagaacatgg ctctctatgc 240  
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gtcctggagc ctggaccaca agagcgccca cgcaggcacc tatgaggta gattcttcga 360  
cgaggagtcc tacagcctcc tcaggaaggc tcagaggaat aacgaggaca tttccatcat 420  
ccgcctctg gttacagtca gcgt 444

<210> 46130  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3078-018-Q1-K1-G11  
<400> 46130

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ccgacgacgt caagccccgc gttcccagca cccgcaagcc taagcctacc aagctcaggt 120  
cgagcatcac gcctgggacg gcgctgatcc tcctcgcaag gcgcttcag gggaagagag 180  
tggtgtttct caagcagctc aagtccggcc tgctccttat ctctgggcct ttcaagatca 240  
atggagtacc gatccgccgt gtgaatcaga cctatgtcat tgctacatca accaaagttg 300  
acatctctgg tgctgatgtc gccaaagttg atgacaagta ctttgccagg gagaagaagc 360  
agaacgtgaa gaagaccgag ggcgagcttt ttgagacaga aaaggaggca tccaagtcac 420  
tgctgactt caagaaggat gac 443

<210> 46131  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-018-Q1-K1-E8  
<400> 46131

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tgcacgagc acctctgcga ggcgcaactc caccgggtgga gcatgcgccg cagcaaggcc 120  
cactttctcc gcctcatggc ggcgctggcg cccctgttca cggggctcag gtggttcgtc 180  
gacgtctgtc actggaagaa cccgtccacc accgtcgcg tccacatcat ctacgccatg 240  
ctggtgtgct gcccacact catcatgccc acctttcttca tgtacaagtt cctcatcggc 300  
ctctggaact accggcgccg gccgaggcac ccgtggcacg tcgacaccaa ggtgtcgcac 360

gccgagatgg cgcacctgga cgagctggac gaggagtctg acgacttccc gacggcgcggt 420  
cgtcccaggagg tgatccgc 438

<210> 46132  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D5

<400> 46132

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tacctgggtct gctggcttat tctatggcta cgtaaccttt gttcctcttc ttctatatgt 180  
tattctcaag tatttctcag ctccctgctgg tctagtgcga ttgtgggtgcc tatacggata 240  
ctccctgttc atcttcattc cagcatcgct tctgtctatt gtgccaatag aaatattcag 300  
atgggtgatt gctgggtgtg ctggtttcat gtctgtctact ttcgttgctg taaatctccg 360  
tgcgcacatt gtaaactctg gcgagcgatg gttcctgata gttgcaggga tattcctgtt 420  
gcagctgggg cttgct 436

<210> 46133  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D6

<400> 46133

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cctccgtcag catactacca ttctgggtgg ttgcgtgtaa atccaaacct gtatgtggat 120  
ggaaagggtt gcttaagtct cttaaatact tggaccggca gaggggaacga agtgtgggac 180  
ccatcatcat caagtattct acaagtactg gtttcacttc agggattggg tctcaatgaa 240  
aaaccctatt ttaatgaggg tgggtacgag aagcaagttg gtactgttga aggggagaag 300  
aatgcagtgc cgtataatga gaatacgtac ctgctgagcg tgaaatccat gctgtatata 360  
ttgagacggc ctcttttgca ttttgaggat tttgtgaaga gccatttccg caagcgtggc 420

cactacatcc ttaaagcct

439

<210> 46134

<211> 441

<212> DNA

<213> Zea mays

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<400> 46134

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ctggctgtac gaacacaaca ggaaatgatg attaccacgt gatggagttt gactgcgaag 180  
atagtggctt accactttat caaattatgc tacctaggcc agccagcccc actgggtctg 240  
ggtgcaccga tgcagtcctc gtaacagaag cagatcttga gggctatgat acttatattg 300  
gtaccaggaa agatgcggtg tcgttgggaag tagccactcg cagtcccatc atgaggagat 360  
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ggttcactga ggttcgcgcc t 441

<210> 46135

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D8

<400> 46135

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agatatctcc tagaaagcca gaagctaagg ctgtgtatgt taaagatgac ttctttgatt 120  
cactctcttg caaccaaatt gacaatggag ggaggaacgg aagagtgaag ttctctgagc 180  
agaggaaaat agacactgag acctttggtg actcagcaag gcatcgacca atgggcatcc 240  
gaggtagggg ccccgctggc ggcgctcgtg gtcgtggcta ttatggtatt agaggatatg 300  
gatatacggg tagggggcgt ggctactctt acccaaattca ccagccgtga tacctcgggtg 360  
tctggaagca cactgaatgg caatggtaaa ttggccaatt tgcgtggtaa aactgagatt 420  
tatcgagat tacagtgcc 439



<210> 46136  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D9

<400> 46136

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gttcggggagt tgcttgaatc attcgggtcct cttcgagggt ttgatcttgt gaaggatagg 180
gaaactggta actcaaaagg ctatgcattc tgtgtttacc aggacctcac cgtcactgac 240
atcgcttggtg ctgcactaaa tggatatcaag atgggtgaca aaacccttac tgtcagacga 300
gcaaaccagg gggcatctca gccagacca gagcaggaaa gtatcctatt gcaggcacia 360
caacaggtgc aattgcagaa acttgtgtat caagttggag cgctttctac aaaggttgta 420
tgcttcacac 430
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<210> 46137  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E10

<400> 46137

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gaatgccctt gggctggggg catgccgatg cggttcaacg gcgacaccga accaagcgga 120
tataccaccg agcaagaccg ctaggaggaa ctgccatgct gtcgacggat gctcatacgc 180
tctgcaagag ctggcagaac tgatagctgt cgacgctgac tggactaacg atgaatgcat 240
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aagcaacaac gtcgacatgc 320
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<210> 46138  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 46138

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gcgcatgaac ctgcgcacgg gcgcctgtgc gcgcaccccg ctctcggcgg ggaacctcga 180  
cttcggcgtg atccacccgg gctaccttgg cgggcgcaac cggtacggat acctcggcat 240  
cggcgacccc atgccgaaga tctccggagt ggccaagctg gacttggacc gcgcgggcac 300  
gggcgactgc acggtggcgc ggcgcgactt cggggcccggtg tgcttcgcgg gggagccgtt 360  
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cgtncacaac gagcgacccg gc 442

<210> 46139  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E5

<400> 46139

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tcacggtacc gaaaatggct agtctcgcta agaggcctca accgctatgc tcattcatga 180  
tggatacgta caagaattct tgtgaacaga acacctgtat ctgtccagac tacgcgtagt 240  
ttgaatgtaa tcatatcatg ctgatatacg tcctgtaaaa cactggagaa tattaatgag 300  
gtctgcattg atcctgttct aggggttgaa gctgacaacg tccacgactt ccgctctaaa 360  
tgatcca 367

<210> 46140  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E6

<400> 46140

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gaggagtctg tgattgcgtc caaggacgac gaggtcgtgg acgcctgagc gagcatccac 180

gcgccagcat gcaagcagcg tcttatctgg gccggcgcca tcacgggggt tcttctttta 240

atctgggact ttgttggtgt tggacgaatg aattcccttc gatcggttag cttaaatctg 300

tctcgtagt gtgtcgtgtt cgtgtagcac catgccacag ctacgccatg ccgtgtgctc 360

tgtcacgtgg gggccattcg tggggtctcc tgctgctgtc agaacgaata agagaagatg 420

gaattgtggt gaaacaat 438

<210> 46141

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E7

<400> 46141

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gtggtggttg cattgaagat tgggtggagaa atgagcagtt ttgggttatt ggtggcacct 180

ctgccatct cttcgcagtg ttccagggtc tgctgaaagt gttggctggg attgatacca 240

acttcacagt tacctcaaag gcatctgatg aggatggtga ctttgctgag ctatatgtgt 300

tcaagtggac cagtttctc attcctccga ccactgttct tgtcattaac ctggtcggaa 360

tgggtggcagg aatttcttat gccattaaca gtggctacca atcctggggt ccgctctttg 420

gaaagctgtt cttctcga 438

<210> 46142

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C12

<400> 46142

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gaggccaagg ccgtggtgcg gatccacgag cgcaacctgc tgggggtgaa gcgctatata 180  
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ctctactgag acctcttcaa cagcgtcacc agcctggatt acgccgccag agacaaggac 360  
gcgctccagg tgcaggagca ctacggcaac atcgtctcgg ctctcgatga gattttctcc 420  
aagatcac 428

<210> 46143

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C2

<400> 46143

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gcagaccag aaggctatgg cctgtttgct ttcgatttcc ttcattcatcc ttcaattcag 180  
gcaaagctcg gttgtaagggt gtccgcagta tgaccacatg gattcagaag aattgcttgt 240  
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ttgaacaaca tcaataaacg acattcaaag gccatgcagt tagctcttca gtttgtctgc 360  
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<210> 46144

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-018-Q1-K1-C4

<400> 46144

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gctcagctac ttgctaaaag tagcgtagcg cagcgcgcg cggctacttg tagtatacgt 360  
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<210> 46145  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C5

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cacgtctgtc aatggttagtt ttacaacatc gtctacggac aaaaaaaaaa cccccgcta 180  
tttgattggt gctaagcctt cgtacgacgt gtaaattggt ttgtacaatg agtgctgcga 240  
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<210> 46146  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C6

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gtcgagcctc caagcactgt tagccgcgta cagcaagaag aacctcgacg cgaccgacat 180  
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catctacaac gacacgaaca tcaacgcggc ctctcgagcg tcgctcaagg ccaactgccc 300  
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<210> 46147  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C7

<400> 46147

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atgggcgccg tcgaggggta ccgcgtcgcc ggcggcccg ctcggggaggt ggtcgacccg 180  
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ttcgtgcagg ctatcgtcac cggcaagggc cccctcgaga acctcgccga ccacatcgcc 360  
gaccccgctc acaacaacgc ctgggcttac gccaccaact tcgtccccgg caagtgagcg 420  
aagggcata tgcttgcata cg 442

<210> 46148  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C8

<400> 46148

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tacatgatat caccgcgaaa gttcaattca gatcacctct tgctgtacgc attgacacac 180  
tcttgaatga acatgatgtg ggggctacct ataaaacatg ccgtcaaagc tgtcattgaa 240  
agtctcgcta ccatggccca tctgatagaa caagacgccc ttactcggga cttcgtggaa 300

tctgacgatg ccagtgtgga tatctacgat ctcaatcgag tgcctgtact gatcaacgac 360  
cacgttgacg ttgctatggc atgctactca tata 394

<210> 46149  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C9

<400> 46149

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cgcgggaagg gtatctcttc atcggcgctg ccgtacaaga ggactcctcc gatctggctc 180  
aagacagcta ccaccgaggt ggaggagatg attaccaagg ctgcgaagaa gggccagatg 240  
ccgtcgcaga ttggtgttct gctccgtgac cagcacggca tcccgttgt caagagcgtg 300  
actggtagca agatcctccg catcctcaag gcccatgggt tggcgccgga gatcccgag 360  
gatctctact tcctcattaa gaaggccgtg gcgattagga agcatctgga gaggaacagg 420  
aaggacaagg ac 432

<210> 46150  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D10

<400> 46150

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atcgtgatgg acaagcccgg cggggagggc gccaccaagc agcagatgat cgactgctac 180  
atccagaccc tcgccaaggt cctcggaagt gaggaggagg cgaagaagaa gatctacaac 240  
gtctcgtgcg agcgctatct cgggttcggg tgcgagatcg atgaggagac atctaacaag 300  
ctcgaggggc tccttggtgt tctctttgtg ctaccggatt cgtatgttga ccctgagtac 360  
aaggactacg gagctgaact 380

<210> 46151  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D11

<400> 46151

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gctgtctgct gcagttcacg gacaagcgt tccagcccgt gcacgacctc accatcggcg 180
tcgaattcgg cgcccgcatg atcaccattg aaaataagcc catcaagctc cagatttggg 240
acacggctgg ccaagaatca ttcagatcta ttactagatc atactacaga ggcgtctgtg 300
gtgccctttt ggtttatgat attactagga gggagacctt caaccatctc gcaagttggg 360
tagaagatgc aaggcagcat gcaaatgcta acatgactgt gatgctgatt ggaaacaagt 420
gtgatctttc tcatagacgt gct 443
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<210> 46152  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-D12

<400> 46152

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tgctctaggg ctgcctgcgt tgagggcgag gagecgagagg gtgcggtgca gctacgccaa 180
ggatgccaaag aacgcggccc cagtcagcac caagggcgca ggcgcgtcgc tgctcgccgc 240
agcggggcgc gtgaccgcgt cggcggagcc cgcgctggcg ctgctggacg agcgcattgtc 300
cacggagggc accgggctga gcctcgggct cagcaacaac ctgctggggg ggatcctcct 360
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<210> 46153  
 <211> 397



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-018-Q1-K1-A9  
  
 <400> 46153  
  
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 gccgtctccg tgaagcccgt ggccatcaag ggtctcgccg gcagctccat ctccggaagg 120  
 aagctcgccg tcgccaggcc gtcggcccgcc tccatccgca ggccccgcgc agccgccgtg 180  
 gtggccaagt acggcgacaa gagcgtctac tttgacctcg acgacatcgg caacaccacc 240  
 ggacagtggg acctctacgg ctctgacgcg ccctcgccct acaaccgcgt acagagcaag 300  
 ttcttcgaga cgttcgcggc tccgttcacc aagagaggtc tgctgctcaa gttcctgctg 360  
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<210> 46154  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-018-Q1-K1-B10  
  
 <400> 46154  
  
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 ggaacatccc caccattgcc ttctgtgata ctgactctcc catgcggtat gtcgatatcg 180  
 gcatcccagc gaacaacaag gggaggaaca gcattggatg cctgttctgg cttttggcca 240  
 ggatggttct gcagatgagg ggactatcc tccctgggca caagtgggag gtcatgggtg 300  
 atttgttctt ctacaggac ccagaggaag caaaggagca ggaggaggaa gctgctgttg 360  
 cccctgagtt tgccgcaatc actgattacc aaggagctga tcagtggggt ggtgaccagt 420  
 ggacctctga tgtgact 437

<210> 46155  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-018-Q1-K1-B11

<400> 46155

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ccatcttcgg aaactgcacc acagagcatg ccacacgcaa cgccttgatc ctgtgcgaga 180

aggcaagcca tctagaggtc ccagtagctg agggcagcca tgagcctctc aagggaggaa 240

agccgcacgt tgctgacttc gttcatggac ctgatggcct cgggaacgta gatcttcctg 300

atcccactat caagaaagtg gaggaagtg ctaccgactt cttggttgat aaggtctcgc 360

gatttcctgg agaggtctct gtgctcgctt tgggtcctct gacaaacata gcattggcca 420

tcaagaagga tccctcattc 440

<210> 46156

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B12

<400> 46156

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cogtcaccgt cctcacgtct ggcaacgtca tggacgagaa ctcttcagt aaccggaaca 120

aggttgcgcc ggtgaaaagc cagctgagca acgccgcgga gcagatgcag gtcacgctgg 180

ctcctcactc cttcaccgcc ttgatctgg cgctggctga gcccaagctt gtggcggaga 240

tatgatgtgt gtgctgtag cgatcttgat cgataaaaag gctttgtact ggtgtactac 300

gtactgttgc ttcatgaaat aaaaaccaca tcaggttttt gcttggtgtt ggttggtttc 360

ctttctcttg tacgtgtttg ctttgcattg tcatcaccat ctactgtacg ggatgatggg 420

acattgatgg tgagaacgat ag 442

<210> 46157

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B2

<400> 46157

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ctgtagtcca tagtggtatg gcaagcctac gggaaagtgg tgagaaaata gtgggggagc 180  
gtgttttaccg tgtgctgttc gctggaattt cactgccttt agcagttact actattgtga 240  
gtccttggtg ctcttttccc aaaggcagat atacctcaat gattaacaaa tcttactgtg 300  
ccttatacag ttcccatatc ttttcaggta tacttcataa atcatcggtg tgatgggtact 360  
caattatggc aagttcaggg aatcactggc attcatgagc ttctttgggt ctcgtcgttc 420  
atttcgttct tctttct 437

<210> 46158

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B4

<400> 46158

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tacgcaatcc tgataattgc agaggatatt gagcaggagg ctcttgctac ccttgtcgtc 120  
aacaagctca gaggatcact gaagatcgct gccatcaaag cccctgggtt tggagagcgc 180  
aagactcagt acttggtatga tattgccatc cttactggag caactgtaat cagagatgaa 240  
gttgggctgt cacttgacaa ggccgacaat tcagttcttg gaacagctgc aaaggttgtc 300  
cttacgaaag agtcgacaac aattgttggt gatggcagca cccaggaaga agttactaag 360  
agggttgcac agattaataaa tctcattgag gcagcagaac aagaatatga aaaggaaaag 420  
ctcaatgaga ggatagc 437

<210> 46159

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B5

<400> 46159

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ctaattggtga tgtatctgaa aatctgcttt ctcgaaagcc gagctctgat gagttaaagg 120  
ctcttttggc tgattcggaa cgaagtaagc ttttgagaag actcagtga gcaaatcaat 180  
ataaccgatt cctcaagaga cagttgcaaa taaaggatga tgcagtcgta aaattcaaag 240  
gtgaacttgc tgttttggaa ctagaactgc aggctctggt tggcctagct gaagaggttg 300  
ctaattttga tgttccgta gggcttagga agataaacgg aaaatatatt caatctcatc 360  
ttctctccag attagaagct gtccatgata agattatgga acaggtaaag agtggtgacg 420  
ctttaagac ccaagaaat 439

<210> 46160

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B7

<400> 46160

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ggagcctatt gaggaccctt atggcccatt cataactgat gataagttgg atgccattat 120  
tgacagtaag gatacattaa atggtggact ggctgcaaat aggaaaagag aagagaaagg 180  
gttcccactg ttgaaggatg aggttgatga tctcctttac ggcggcgagg aggggggaaaa 240  
attgactact tctgctttaa ggaaacttga ggcataacaa gctcaacaga gtgatacata 300  
atctggtagc ctcgaagctt tttagggagg aaattgaata ctctgatctg gctagctgaa 360  
tgcacatata ctggggcgat ctgctacaag ctcagtgatga acaatgaatg tgatcaggag 420  
ctgac 425

<210> 46161

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-018-Q1-K1-B9

<400> 46161

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cgtcatcacg tcgcagttcg agtggaaagca gcagatcggg gaggccgcgg acgccgaccc 240  
ggccgctgcc cgccgccggc agcagctgca cgccaggag gatgccgtca aggaaaagat 300  
catattatca caggagaaaa atatccaaca gcttaaccag cttatcgaga gccttcagcg 360  
ccagctactg cactgccgtg gtagcaataa cactgttcat gctgctgccg ncgttgccac 420  
agaagcgagt gaagt 435

<210> 46162  
<211> 429  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-018-Q1-K1-C1  
<400> 46162

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tgctagggat tcgaggggag gaaaatccag gcgccaggc ctggcaatcc gtctcgtcga 120  
gaggccatga gtcggcgca ggatccgttc tacatcgctc gggaggagat ccaggagtcg 180  
attgataaat tgcaaagtaa cttccaccgc tgggagcaaa ctgcttcaaa cacaggagaa 240  
tatgttcac tgacaaagga gcttctgacc agctgtgaaa gcatcgagtg gcaggtagat 300  
gagctggaaa agacaatctc agttgcatca agggatccat catactatgg acttgatgaa 360  
gttgaacttt ccagacgaag aaactggact ggttctgttc ataagcaggt tggtagagtt 420  
aagagagct 429

<210> 46163  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-018-Q1-K1-A8  
<400> 46163

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gaactcgggtg gcgtgattac tgtgcacaga taaaagattc acagtcctac ttggctgtag 120

cgTcaaacac atctggctct acaccgaaag agttatttga tgacgtgatc gaggaacttg 180  
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 ctatgacaac atcatggaca ttagaggaat tccaaactgc tattctggag gatgatgctc 300  
 ttaaaggaat atcaaccatc aacatcaagc ttatctatga tgatcagctt gaaaggctca 360  
 aggaaaaaga gcaaaaggag gctaagaagc gccagcgttt gggtgaaaat ttttcagatc 420  
 ttttgtattc catcaag 437

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 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 tctcaagtat tattggttga tgctatgctc caagaattag aaaaggagat tgatgatgtg 180  
 gatgcacaaa ttggaaatcg ttggcaactg cttgataagg accatgatgg caaagtgacc 240  
 cctgaagagg tggcggcggc gacagcttat ctcaaggaca ccatagggaa agaaggcgtg 300  
 caagagctca tcagcaacct ttctaaagac acagaaggaa aaaatccttg ttgaagatat 360  
 tgtgaagcta gcatccana tagagaacaa tgaagaggaa gaggaagcac ggtagatg 418

<210> 46165  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H7

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 tgactggaac agacaacaat gcaccgaaac ccacgtgtag tgtgccaagt gaacaattcg 180  
 gtgggtgacga cggaacgcac tcatcaggca acaatggcgc agaagagtct tcagatacta 240

agcagccacc accgtcgaag aagcagaggg tatacactga cgatgacttg gttgtgataa 300  
 tgagtcggag cctcggcgag cttgcttcgg ctataaaaag gctttccgaa caacccgacc 360  
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 a 421

<210> 46166  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A1

<400> 46166

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 tgggtgtggtt tacacaagaa gggctcacia gaagtttgct tttgaatcct atatttgcca 180  
 aagaatgttc agtgggttcc aagaagagag cttttctatc aaggattcta acatcagtgt 240  
 ttccaatgag gctttcttcc accaattcct cgcggtgcga gccatggatc ctctggatgt 300  
 cctgagccag aaccctgatt cagtattcgg aaagttctgc agaagcaagt acctatcgct 360  
 tgtgcatcaa aaaatggaag gttctttctt cggcaacgtg gatc 404

<210> 46167  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A10

<400> 46167

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 catcgccggc gaagcgggtg cagctggccg cgcccagagg ccgcccgcgc gctctgctcg 180  
 gcctggcggc cgtcttcgcc gtcacggcca ccaccgggtc ggccaaggcc acgatcttcg 240  
 atgagtacct cgagaagagc aaggccaaca aggagctgaa cgacaagaag aggctggcca 300  
 ccagtggcgc caactttgcg cgcgcttaca ccgtggagtt cggcagctgc cagttcccct 360

acaacttcac tgggtgccag gacctcgcca agcagaagaa agtcccccttc atcagcgacg 420  
acctcgagat tgagtg 436

<210> 46168  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A12

<400> 46168

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tgtgacgatg aagaggatgg tgaatgggag gcaccaaaga ttgacaaccc caagtgctaa 180  
gaggcacctg tatgtggcga gtggaagagg ccgatgaagc agaatgctgc ttacaaaggc 240  
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atacccaacc ctgagtactt tgagcttgac aggcctgatt gtgatccaac tgctgctatt 360  
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gatgag 426

<210> 46169  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A2

<400> 46169

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ctgacgaacc ctggagcccg acatgctaatt tcatgcagat ccaccacgag gcgcgccacc 180  
ccaagctacc attcgagccg gagaagctcc tcaacctgca ctctgcagc cagctgctg 240  
ctgccgacgt cgtcgtcact tgcgaggcca tcacctgcaa gcccaagccc ggcgtacgca 300  
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tccatgcggt ttcaatccca tccgacgacc cgatctat 398



<210> 46170  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-018-Q1-K1-A4  
  
 <400> 46170  
  
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 tcatggtggc gccggacgtg taggcggaca cgatgaagct gatggatcag ctgggtgccc 180  
 tagaggcgga gatggacgcc atcatcgccc gcctcactgc gagcggccga ccgggcatga 240  
 ccggaggcct cgatactccg agggtttccc atggtccgac atcggcatgc tgaacgtcct 300  
 cgctcagcgc cttaggcttg ctgaattgcg caatgaccac aaggatgtta caaactacat 360  
 tggtagaaat cttggggtgt tacactcagg acagttatca aggaatg 407

<210> 46171  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 46171  
  
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 aggacaactt cgacgccaac agcaacgtgt ccgtcatcat ccagcccacg tccaagaaga 180  
 ccatcgccga ctacggctct cccgaggagt tcctctccca ggtcgactac ctgctcggca 240  
 ggcattgccta cggcggcaag accgactccg agggcggggt cgagaccggc gccgtggcca 300  
 ccgccaacgt cctggagagc tccaccacg tgatcgacgg caagcagtac tacgccgtgt 360  
 ccgtgctcac caggacggcg gacggcgacg agggcggcaa gca 403

<210> 46172  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A6

<400> 46172

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gcaggcgggc cgccgcgccg tgctcgggct ggtggccact ggcacgctcg gcggcgccctt 180  
gtcgcaggcg gtgcacgccg agaccgtcaa gaccatcaag atcggagccc cgccgccgcc 240  
ctccggtgga ctccccggga ctctgaactc tgaccaggcg agggacttcg acctccccctt 300  
gaaggagcgg ttctacctgc agccgctgcc gccggcggag gcggtggcga ggggtgaagac 360  
gtcggcgcag gacatcatca acctcaagcc actcatcgac aagaaggcgt ggccgtacgt 420  
ccagaacgac 430

<210> 46173

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-G1

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ggacacaacc catccaataa tctttcatga gtacagtgtc ggagtcacgc gccaatctct 180  
tcaaaattat cattaattta tgatgttcat gtaactatag tcgtaggata aggcagggcc 240  
ggtttggttt catcacgcgg atgggagcac cttcttgacg atctcatcac tgagcgaggc 300  
gatctgggcg tcgagcgcct taacagcctn ctnttctgc gcctcgaggt tggcgagcgc 360  
ctctacgagc tc 372

<210> 46174

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-G11

<400> 46174

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ggcacgggct ggggtcgcgg acccgcgacc tgttcgcgcg gtccttcgcg aagaaggggt 120

acattccact caccacgtac ctgcgcacct acaagatcgg cgactacgtc gacgtcaagg 180

ttaacggcgc cgtgcacaag ggcatgccgc acaagttcta ccacgggcgc accgggagcg 240

tctggaacgt caccaagcgc gccatcggcg tcgagatcaa cagcaagtt aatggccgca 300

tcacaggaa gcggatccat gtccgcgtgg agcatgtgca acc 343

<210> 46175  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-G12

<400> 46175

cccacgcgtt cgcatgatcg acggcaagcg ggtgatccgc gtcaagtcgg accacttcgg 60

caagttcttg cggcgcagcc cgaactggat ctggtgcgac accgacgaca ccagcacgga 120

caaccgtgac accctgttcg aggtcgtcag ggtcggcgac gacgcggacg ccgtgtacgg 180

gctccggaac ctcggaaca accacatctg ccaccggctg acctacgagg gcaaggagag 240

ctgcctgaac gccagcatac ccagcgtcag gaaggaggcg cagctgaaga tcgaggaggc 300

cgtcctgctg cggaagatct acggcgtgga ctaccacctc aaggacgcca agatcctgaa 360

caacaaggtg aggaccctgg tgactcgaga ggcggtgaac gccggcagca tgcccagcat 420

gaacacgc 428

<210> 46176  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3078-017-Q1-K1-G2

<400> 46176

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ggcccggctn gggaggtggt cgacccgctg gaccccggcg gcagcttcga cccgctcggg 120

ctcgccgacg acccgagggc gttcgcggag ctcaaggtca aggagatcaa gaacggccgc 180  
ctcgccatgt tctccatggt cggtttcttc gtgcaggcca tcgtcacggg caagggtccc 240  
gttgagaacc tcgccgacca cctcgtgac cctgtcaaca acaacgctg ggcctacgct 300  
accaacttcg tccccggcaa gtgagcgagg gcatatacat acttgtatgc gtgtaccgga 360  
gacatacgta ttcttatatg tactgcanga gatgtaccag tatttgtgaa gaaaggagca 420  
atggctcaga gattgtacca gtagtgtacg tatt 454

<210> 46177  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-G4

<400> 46177

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aggagggggc ggagcgggtc aggtcgtcgc tcgaccccgga tgatgtcgcc tccatcaggc 120  
agacgcagca cctcataatg gggcgattgc aagatagcaa tgcagttctc acacatttta 180  
atgagtattc cgaacgatgc tttgtagaag tgtctggtga ttttgctagt aaaactcgcc 240  
ttctcaagtc tatgaaggct gatctcgacc atattttcac aaagctaaga gagatgaaag 300  
ctaggctagc agctacctat ccagacgctt tccctaattg tgcaatgtca aagacgatgg 360  
accagagacc agaccttgaa agtccttttag attagtgcgt ctaacatcaa aattccgcat 420  
attagtgcgc acatttggtg tcataccaaa gattt 455

<210> 46178  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-G6

<400> 46178

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agtcgtcggc gggaacaagc ggtacgtacg tagaggatga agagcaggag cagcactctg 120

ttggtgatcc tagttctcca ggccttctg ctctctgagg ctgtggccaa aggacctgca 180  
 gggccgaaga agcagtgtg gtgcggcgag tgcaccagct ggtcggggcg gtggacctgc 240  
 gacgacctcc tcaccaagtg cgccgncacc tgcaagaact gcgtccccgt gtccacgggc 300  
 aagggcgcca ccaagtacag gtgccgggac ttccttcccc aaaacttgcg gtgcaagatc 360  
 cactaaactc atccaattcc accatggcca cagcagccga tggatccttc ttccatatgc 420  
 at 422

<210> 46179  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-017-Q1-K1-G8

<400> 46179  
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 tgcgtgccgt aatcttctat cagtaaattg agaggaggga ttcacatttc ctgatggcct 120  
 aatatctgcg tgaagtggca tgttcaacaa gcttgctcaa caacagttta cataaagcaa 180  
 agatatacga ttgtggaaat cattgcccatt ttccaccaat ttgcttgat acggattatg 240  
 ctgtgtatat attacataac aaatgtatta gtatcattta atgcacgatt tgtg 294

<210> 46180  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-017-Q1-K1-G9

<400> 46180  
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 gaggtcgatg tgctgggggtg gtggcaggag aagaaggaaa cgaaaaagca ggagccaggg 120  
 ttgttcaaca acgtgaccga gtcgctgagg cgaggaagag taaggtgaaa gcaactcgtcg 180  
 acgcctttga gactgacaga gcgtcatctc gctgcaggaa accagcaagc ctgctgctgc 240  
 tccagctatg aaagtaggtg tcgtgccatg agtgcttctt gacctgcagt gtgcatgac 300  
 acctttcttg gaattttaaa ctttttttgg ttgttagtga ccgtaaaagt ggcgcttggt 360

gaggtttgct cgttcccatg taaactgact ttcc 394

<210> 46181

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H1

<400> 46181

cggacgcgtg ggacgtacac caagcccaag aagatcaaac acaagcacia gaaggttaag 60

ctctccgtgc tgcagttcta gaagggtggac gacaccacta gcaagggtgac ccgcctccgc 120

aaggagtgcc ccaacacaga gtgcggcgcg ggcgtcttca tggccaacca ctctgaccgc 180

cactactgcg gcaagtgcgg cctcacctat gtctacaacc agaaggcgta attgcttgcc 240

ccgatttgct ttatccgcct accctatcga acatccagct gttggttact cgaattgtat 300

ctcatgtaga tctgtctgag gttgaaactt aaatggagca gtagtatctg tc 352

<210> 46182

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H11

<400> 46182

catctgcagg cgctccctcg acattgagag gcccaactac tccaacttga atcgccttgt 60

gtctcaggtg atctcatcgc tgactgcttc tctgaggttc gatggtgccc tcaatgtgga 120

tgtgaacgag ttccagacca acctggttcc ttacccgagg atccacttca tgctctcttc 180

ctacgcaccg gtgatctctt ctgcgaaggc cttccacgag cagctgtctg tggcggagat 240

caccagcagc gcgttcgagc cggcttccat gatggtcaag tgcgaccac ggcacggcaa 300

gtacatggct tgctgcctga tgtaccgcgg cgacgtggtg cccaaggacg tgaaacgccg 360

cgtggccacc atcaagacga agcgcaccat ccagttcgtg gactggtgcc cg 412

<210> 46183

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H12

<400> 46183

cttcacgctg ccgctgcgct ctgtgtcggc gccggcgcca gcgaggcggg tcttcgaggg 60  
cgttgccgtc gcggtgtcgt cggagtacgg gaccgagggc gcgagcagc aggacgggga 120  
gttctccgag gacctcaagc tggtcgtcgg taacctgccg ttcagcgtcg acagtgcgca 180  
gctggccggg ctcttcgagc aggcggggctc cgtcgagatg gtcgaggttg tatacgatag 240  
aatgactggg cggagccgtg gatttggtt cgtgacaatg tcttcagctg aagaagccgg 300  
ggctgctgtc gagcaattca acggttatac atttcaagga agacctctga gggatgaactg 360  
cgggccaccg tcacctagag atggatccgc accaagagca ccaaggggtg gtggtgg 417

<210> 46184

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-F8

<400> 46184

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gccgcaatgg agagcacctt catcatgac aagcctgacg gcgtccagag gggcctcatt 120  
ggtgagatca tcagccgttt tgagaagaag ggcttctacc tcaaggcctt gaagcttgtg 180  
aacgtggaga ggtcgtttgc tgagaagcac tacgccgac tcgcctccaa gcccttcttc 240  
cagggcctcg tggactacat catctctggc cctgtggtgg ccatggtctg ggagggcaag 300  
agcgtcgtca caactggccg caagatcatt ggcgccacca acccctggc ttctgagccc 360  
ggcaccatcc gtggcgactn tgctgtcgac attggcagga atgtcattca tggaagtgac 420

<210> 46185

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E5

<400> 46185

cccacgcgtc cgccacgcg tccgcgtgg tcggcgacta cgggttcgac ccgttcgggc 60

tcgggaagcc cgtggagtac ctgcagttcg aactggactc gctggaccag aacctggcca 120  
agaacgaggc cggcggcatc atcggcacc cgttcgagtc ctccgacgtc aagtccaccc 180  
cgctccagcc ctacagcgag gtgttcggcc tccagcgggt ccgcgagtg gagctcatcc 240  
acggccgatg ggccatgctc gccaccctcg gcgccctcac cgtcgagtgg ctcaccggcg 300  
tcacctggca ggatgctggc aagggtggagc tgggtggatgg gtctctctac ctgggccagc 360  
cgctgccgtt caccatctcg acgtcatct ggatcgaggt gcttgtgatc ggc 413

<210> 46186

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E7

<400> 46186

ggagatcctc ccgcttgccc ctttgaatga tttcgagaga gctggtctgg aagcggggaa 60  
gaaggaactg ggcgagagca ttcagaaggg catcgctttc atgagcaagt gaaagcggag 120  
cggtagcgag ggatcgctcc tgagtcagat ccggaccata cgtagtaacg tagatgtagg 180  
gtgttgtgat atagtgtcc tacctatact tgtaaggcca cggtaaaaag aaggctaatt 240  
accctttagc aactgtgacc atctacttgg cataatggca tggaataaat ctttcgtctt 300  
cgggtggcga caagggccgt gcctgctctg tgctttgctg gacggtgggt gagccacagc 360  
ggggccgcag gaacaacaga atagcattgg tttggagacc ggtgtt 406

<210> 46187

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-E8

<400> 46187

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aacttctttg agaattgacc gatttgtacg cccatttacc ctgaaagctg tgcaggagct 120  
tcttggtaaa actggatctg tacaagactt ctggatggac catatcaaga ctcattgcta 180



tgtgacattt tcttcggtgg atgaagcaat ggctactagg gatgctgttt acaacctaca 240  
 gtggccccc aataacggca ataagttggt cgccgaattt gttgatcctc aggaagtga 300  
 gctcaagggt gacccccctc ccccgccagc tgcctctgtt agcccagctg ctatcacaag 360  
 ggcacctnct cttcaacaga ctcaaagtgt gccacgccag gctgctacac ca 412

<210> 46188

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-E9

<400> 46188

cgctcggctg gggctccggc tcgccggaga agatcaagga gctgctgacc aaggagatga 60  
 agaacggacg cctcgccatg ctcgccgtca tgggcgcttg gttccaggcc gactacaccg 120  
 gcaccggccc catcgacaac ctcttcgccc acctcgccga ccttgccac gccaccatct 180  
 tccaggcctt ccccccaaa tgaggagctc tgatgaactt ggcagttcga ggagtgtac 240  
 cacacatgca tgcattgtta ggtttgatgg ccgatatgga actttntctt tttgttgggg 300  
 gcggactact gggtagactg tcaacgatga tgatgatgaa tgatgaa 347

<210> 46189

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-F1

<400> 46189

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 gggggcctcc tatgaggata gcaanaaagc tattaaggct gttccgagg gtccactcaa 120  
 gggatatcatg ggttatgcgg aggaggatct ggtttctacc gacttccttg gtgacagcag 180  
 gtcgagcatc ttcgacgcca aggcgggat cgctctgaac gaccattcg tcaagctcgt 240  
 ctctgtgtac gacaacgagt ggggctacag caaccgcgtc gtcgacctga tccgccacat 300  
 gttcaagacc cagtagaggg gttttttccc cctgcttctc atggatgggt gctgcttgtg 360

tatgccgaga ataaatgtgg atggcgctg cctctgggtc gccaggttca tgctgagtct 420  
 ggacatgttn tgcactt 437

<210> 46190  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F11

<400> 46190

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 ggcaggcatg aatgggatcc atcatcgaga gtgtccagaa gtgcagcaca tatcgaggat 120  
 attaactcga gaggaggtga agcatcccgg aatggagatc ctgatgcttt ggcaacaatg 180  
 aacgcaactg cagaagctct tgaagcaaaa gaaaagcaaa agccatcggt tgaattgtct 240  
 ggaaagcttg ctgaggagac caacagagtt gcagggtgtaa atctattata ttcagaaccc 300  
 ccagagggtc gaaagtcaga gattagatgg aggtcttatg tatttaaaga tggatgaacca 360  
 ctgaatgaac cactgtatgt tcatcggatg 390

<210> 46191  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F12

<400> 46191

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 gggggcgggtg acggaggcgg agaaggaggt cgccagcgag ggcctgcagc tgggtggccgg 120  
 cgcgagagctc gccggggacg ggctagtga agccgcgggtg gtcgccggcg ccgaggcgct 180  
 cggggctgctc gtgggcctat ccgtggtaaa tgggtatcctg aagcccagag cctagatggg 240  
 gtaggctgct gggccttgta gtttcggccg aatacaagt tttgggcttt aacgcttcgt 300  
 tgtcggatga cctcttcttt tgtgtgtaaa ttgttattat tataacaatt attggagtgc 360  
 ggatatgggc agctagaaaa gttgtgatca attgtaatgc tgcaggattt gaacacccaa 420  
 catg 424

<210> 46192  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F6

<400> 46192

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 cccatgttga tccatttgac atcttctcat ctttttttgg accctctttt ggaggagggtg 120  
 gtggaagcag caggggaaga aggcaaagga ggggagaaga tgtagttcac ccacttaaag 180  
 tttctctgga agatctttac aatggcacct caaagaagct ctctctttcg cgcaatgtca 240  
 tctgctccaa gtgcaagggc aagggtcga agtctggtgc ctcaatgagg tgccttggtt 300  
 gccagggctc aggcataaaa gtcactattc gtcagctggg cccttccatg atacagcaga 360  
 tgcagcagcc ttgcaatgag tgcaagggga ctggagagag catcaatgag a 411

<210> 46193  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3078-017-Q1-K1-D10

<400> 46193

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 gttgtccctg gatggaggag aagatgccgc cgcattggcca tgggtgcgcgc ggccaccgcg 180  
 gatgctgcgg cgccgccta cacctncgat tccctcatcc tctacttcaa ggcggagggc 240  
 accatggagg agagggccat tccaagatc acagaatctc ttgagggtat ggaggagtc 300  
 aaggacctgg aggtgctcat tgaagaaggc atcggaagtg ttgtgttaac aaaggagaca 360  
 actgtgcaag ctactggagt agcctcgaac ctggtggaag cta 403

<210> 46194  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-D11

<400> 46194

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tagatgatca gggcttgcca agggacccta gacattttga gagagcttta ggtagacctg 120  
atggtttccct tgattcagta cctggaaggc cttcatttgc aaaccacaga agtgcaggtt 180  
tgcattgagga ttttccaaga aagcaaaatg caactgccag tcaccctgac ttcctgtcac 240  
atggagcaga atttgatcat cacaaggcta ttggaatgcc taatttcaga aatccaagcc 300  
catttgctca agggacaagt ggccgtcctt gtggccctnc taaacaccaa gctggctctg 360  
gtgacatgca ttc 373

<210> 46195  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-D2

<400> 46195

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aggggaaggt ttctgacaag gctagttcat cgtgggcttc tgaggcggta gctacaatgg 120  
agatgacaca ctggaagctc tcccccttct tcatgactgg tctccttccc caggaggcca 180  
tgcaatactt ggacctagtg tgccgatgca ccaagaacac gcgccatctg gtctccatgc 240  
tcagatctct tgcagagcgt ctggaagatg cgaaccgcgc aattatacac aacaacccaa 300  
ccaaactgta tgagcacctn cttgtaaagt ccccataagc ctcaaactgc tctgcgcagc 360  
gatgcgggtgc taacctttac ttttctgtgc agtagtgcag cttatgtatt tcgggttatt 420  
tgaacgattg tgaaagcgt 439

<210> 46196  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-D3

<400> 46196

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acatcgtgga cgtgggggac gtggcgcaac cggcgctctc cacggccagc gtcatagtct 180

acttctgctt cttegtcatg gggttcgggc cgtccccc aa catcctctgc gcagagatct 240

tccccaccac ggtccgcggt gtctgcatcg ccactctgcg cctggccttc tggtctgggtg 300

acatcatcgt gacgtacact ctccccgtga tgctgaacgt cgtcgggctc gccggcgctct 360

ttgggggtga cgccgtcgtg tgcgtcctag cctcgcggtt cgtgttcgtc aagggtgcccg 420

agacgaaggg ca 432

<210> 46197

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-D5

<400> 46197

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aaatgtcgat gaaatgtctg gttcagtcgt tttggatgtc atcaaccaga catggagccc 120

aatgtttgat cttgttaatg tgttcgaggt cttccttcca caacttctgt tatatcctaa 180

tccttctgat ccattaaatg gagatgcagc tgcgttgatg atgcgtgatc gccctgctta 240

tgaacaaaag gtgaaagagt actgtgaaaa atacgccaaa ccagaggatg ctggtgtcag 300

cccagaagac gagtccagt acgaagagct gagtgaagag gaaaatgact cgggtgatga 360

ggagataatg ggcaaaccag acacatagtc gagttggaac ctagatctgt 410

<210> 46198

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-D6

<400> 46198

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gaaatggcta tgcaggccgc aaggaggcta gcgctcttga aactccaacg acgcctactc 120  
cttccctctc aggccgagtc cccaagcata agcattccaa ccgcaacggc ggccggcagcc 180  
ttccttcaat tccatgccac cagctttggg tacaagcagg ttcccaaaaa ggt 233

<210> 46199

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-D7

<400> 46199

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gactcaacgc gactggggag ttcttccggc ggagggacga gtggaggagg caccctatgg 120  
cggggaacca gctgcgccac gccacacccg ggctcggcat cgccatcgtc gccttcggga 180  
tctacctcgt cggcgaggcc gcctacaacc gcctctaccg cccctccggc gacaaccacc 240  
actagatcgc cggcaggatc cgtgactcgg tcaagaagct ggagccaact ttaccaagca 300  
ctggtgctgt tgatgttttt acagttttga gtcataagg tcagccatga ccatattgta 360  
atctgtgacc aggtagactt gccactggg cegtccaact attgtcttgg ga 412

<210> 46200

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-D8

<400> 46200

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gcatggaacc aactgctact cgccacacta tggctaagca tcgccatcgt cgccttacct 180  
atctatctac tcgatgacgc cggctacaac cacctgtacc gtccctacga cgacaaccac 240  
cactagatcg cctgcaggat cagatactcg gccagaacc tcgaccaac tctacatagc 300  
actgctgctg ctaataatca tacagtttaa gatctcatat gagttagcca tgaccatata 360

tgtaatctga taccatatac tactatgccc a 391

<210> 46201  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-D9

<400> 46201

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tacacctgac tgtttctctg attcagtacc tgtaaggcct tcatttgcaa accacaaaat 180  
tgctggtcta tattagaatt ttccaataaa gcaacattca actgtcattc accctgactt 240  
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<210> 46202  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-E1

<400> 46202

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gagcagccgc agcactacta agagcggaca gcggactatg gaggtggagg ccatccgagt 180  
tcccttcgaa gcttctcgag gataggtacg cggaagatag cttcgtcgtc accattgcgg 240  
catcgtaaaa gggcttagca agaaagagct ccaggacctt ctgcaagagg gcgccaagat 300  
gctggtgcgt gctgcaagtg ctagaggaaa tcggatcctc gggtcgggcg atgagatgga 360  
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ntgtcaggaa ct 432

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<211> 377

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 46203  
  
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 ttttttatga tgacagaaga aggaatgcaa cccaacatga cgttcatcat gtcacctctt 180  
 ccttatttaa gggatgttta gtagcagatg gaacgatcaa aagaactcaa atgccaatca 240  
 tccatggaga aggatgtggt catgtcatgt gagagcgaca ttgctgcag cacaaaaatg 300  
 atccgagcgg gaccaaacat attctaggca gaatcgtatc accaccagca ccgaagcttg 360  
 gatagcgctt ggatata 377

<210> 46204  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-017-Q1-K1-E11  
  
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 tcttcccttc ctatcatcaa cacaactcac catccacctc accatcaaata caaccttcta 180  
 tcgctatact ctaatctcat cataactgtc acacctcacc aatatctcca taactatatc 240  
 actccctcat aacaagtatt ctctatatta accttttcac cacaaaaata tcataaccaca 300  
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<210> 46205  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-017-Q1-K1-E12



<400> 46205

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cgctctgtac ctggggcccg tgctccggctc gcccccgagc tacctgaccg gcgagttccc 180

cggcgactac ggggtgggaca ccgcgggggt gtcggcggac ccggagacct tcgccaagaa 240

ccgcgagctg gaggtgatcc actgccgctg ggccatgctc ggcgcgctcg ggtgcgtgtt 300

cccggagctg ctgccccga acggcgctca gttcggcgag gcggtgtggt tcaaggcggg 360

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<210> 46206

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E2

<400> 46206

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ggcaagctga cagcgagggt aaagcttttc aaaacgatat tccgagtggg agagaaaaga 180

aaataaaaga aatagcaggt tatttttagaa aaaaatagtt ggcccatatg taacgcgcgg 240

tagctttaag attattatgt ccagcagctt attcatatat tatacatata ttcaaatttc 300

actctgtgaa tagtagtcta aaatacagta gtgttttgag t 341

<210> 46207

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C9

<400> 46207

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agaacaagcc atacccaag tccagggtact gccgtggtgt ccctgacccc aagattagga 120

tctacgatgt tggcatgaag agaaagggtg ttgatgagtt ccctactgt gtgcaccttg 180

tctcttggga gaaggagaat gtctccagtg aggctcttga ggctgcccgt attgcctgca 240  
acaagtacat gaccaagtct gcaggaaagg atgccttcca ccttcgggtc cgggttcacc 300  
ccttccatgt ccttcgtatc aacaagatgc tttcgtgtgc tggggctgat aggctccaga 360  
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<210> 46208

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B5

<400> 46208

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gcaccgcgtc ttcgatttct tcaagcaggc atgccgctct atccccaccg tcatggagat 180  
ctacaacctc gacgacgttg tcacgccctc tcagctccgc tcgaccatcg ctaaggagat 240  
ccgtaaaaac cagaacgtca ccaaccccaa ggtgattgat atgcttcttg tcaacgcgac 300  
ggaagagctg aacaacatag tcgaacatgc aaagcagcgc catcatgtga ttgggcagta 360  
tgtgatcggc caagagggcc tgggtgcacga gctggggctg aaggatcta 409

<210> 46209

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-B6

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ctccgcaagg gcaccaccgc ccgcccgtc gtcatcaaca aagacgcgga cggcggcagc 180  
tacaagcggg cgagtcgat gccgtcgacc ccgacgacgc cggtgacgcc gtcgtcgctc 240  
tcgtcgtcga cgacgccgcg cggcgccggc aacgtgtggc gcagcgtctt ncacccgggg 300  
agcaacctgg ccaccaagg catgggcgc 329

<210> 46210  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-B7

<400> 46210

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ctcctcgcta cgcttcgctt cctcggcgcc gattcctect cctcctcctg caccctcgtc 120  
cgtccccctt cggcgcgcga gctcgcccga gatggcgaac gcgagatcgg gtgtcgtctgt 180  
gaacgatgag tgcattgctga agtttgccga gctgcagtcg aagaggctgc accgcttcat 240  
aactttcaag atggacgaca agttcaagga gatagttgtg gaccaggctc gggatcgcgc 300  
taccagctac gaagacttca caaacagccc tcttgagaat gactgccgat acgcgatcta 360  
tganttcgac nnttgactg cagaggatgt ccagaagagc aggatct 407

<210> 46211  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B8

<400> 46211

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gaagatcgat ggcccaatgt cgactggcag tctggtgctt gcggacaccg acatcgatag 180  
caaccccagc gtgagcttca actacttcca gcatccacag gacctcaggc gctgcgtcta 240  
cgggattcag acgatcgaga ggatactcaa gacaaaccac ttcgctaacc ttaccgcca 300  
cgggtgccggg taccgatgg aaacgctgct caatctgagc gtgtcggcta acataaacct 360  
gataccaag cacacggatg acaccacgct cttggagcag ttctgcaggg acacggtgac 420

<210> 46212  
<211> 433  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B9

<400> 46212

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cgcgggctcg gtccgccccg ggttccgatc tggtcgccga ctgcctgag gagatgaacg 180  
gcgccggggg cagccaccac cagcagcagc agaggctccg gcagcagcag cagcaggcgc 240  
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ccgtcgcggc ggcggcggcc atgaccagcgc tcgtctcccc ggatcctcgc ctctcgatct 360  
gctggtctgc gtgcgcattg ggcagcagta atgcgcgcgc atctgcttgg gagatttttt 420  
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<210> 46213

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-C1

<400> 46213

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gctctgcgtg ctgctctcct tcctcctgat gcccttggcc tccttagccc tgacgcagga 120  
cttctgcgtc gccgacctga cctgcagcga cacgcggcg gggtagccgt gcaagtccag 180  
cgtcaccgcc aacgacttct acttccacgg cctggccggc cagggcaaaa taaaccact 240  
catcaaggcc gccgtgacct cggccttcgt gggccagttc ccgggcgtca acgggcttgg 300  
catctctgcg gccaggctcg acatcgaggt gggcggcgtc gtgccgctgc acaccaccc 360  
ggcgggctca gagctcctct tcgtgacca gggcacgcgc gccgncggct tcatcagctc 420  
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<210> 46214

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C11

<400> 46214

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atgtctcctg tgactctctt gagactgcc ttattgactg caacaactac atgaccaatt 180  
ctgcaggaaa tgatgccttc caccttcacc ttccggttca ccccttgaat gt 232

<210> 46215

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C12

<400> 46215

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atgcagctgg agcaggagag aatagaagct gagaagaagc gggtaaaaga agacgcgcaa 120  
caacttgctc gagtttttga aaccattggc gctttcaaac tccctcgcaa aggtggaaaa 180  
ggaaaacaga tctttgggag tgtcacggca caggatgttg ttgacataat aaagtcacaa 240  
cttaataggg atgtcgacaa gaagctggtg acggttccag aaatccgtga aatcggagag 300  
tatgttgtag agatcaagct tcaccagac gtgacagcgc gagtaaggct gaatgtctat 360  
gcgaaatgag ctcaacagtt acagaacctc gagtaatgga ctttggaaga gcctgatg 418

<210> 46216

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-C2

<400> 46216

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gctcgcgcag gggctcaagg gtgacccac gtacctggtg gtggagcagg acaagacgct 180

ggccacctac gggatcaacg ccgtgtgcac tcacctcggc tgcgtcgtgc cgtggaacgg 240  
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 ggtccgtgga ccggcgccctc tgcgtcgtgc cctggttcac gccgacgtcg acgacggcaa 360  
 ggtcctcttc gtcccgtggg tggagaccga cttcaggacc ggcgaggacc catggtggaa 420  
 ggcatgaaga tgatccg 437

<210> 46217  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C5

<400> 46217

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 gccgtaactt ttgccgaatc tgctctgaag ccgcaagtga agaagggcag ctgcagttaa 180  
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<210> 46218  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 46218

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 ggctccaaga tcccagagagg cgttgctgtc agggcgacgt ccggcggcga gggcgccacg 180  
 gaggaggtgc cggagattgt gaaggctgcg caagacgcgt gggacaaaagt tgaggacaag 240  
 tacgccgtgg ccaccatcgg tgcgtcgtgc atcgtcgcgc tctggacggt agtaggtgcc 300  
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<210> 46219  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 46219

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cagaacgccg tcgcgtacaa cggcaacctc atgcagaggg tcgccatgag ccaggggacg  180
ccgctcaagc ccaacgtgcc cgtcgacgtc tacgtgttcg cgctcttcaa cgagaacatg  240
aagccagggc ccacgtcgga gcgcaactac gggctgttct accccaacgg ctgcgccgtg  300
tacgcgtca gcgccggctt ccgcggcggg tcagggtcgg gcgggtcgct caaccgtac  360
tacacatnca tggtctcctn ctgcgtccaga tccggcgtga gcgcg                    405
  
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<210> 46220  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A11

<400> 46220

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gatgctgctt gaggaagagg cctaaaaaga agaacggaca gatgaatgaa ggaaacaagt  180
gtgtaatgtg ttgatcaggc ggaggaataa taatgggtca actgacaact ctgggtcggg  240
ggattttag tagttttggg ttttttagtt gtagaacggg gttgccctcc tagagaggga  300
tgaacacatt atgcatgcga tgtgtcagtt cggtcgggtgc tatgcttcgt tgggatttga  360
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<210> 46221  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-A2

<400> 46221

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ccctctcttc tctttctgca acctcggcgg tgctttcttc ggctctggct ttggcttcaa 180
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<210> 46222  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-017-Q1-K1-A4

<400> 46222

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accctgtcta cttttctggg gtatttcccc agcaaggcgg ggatgatcag gctcaaggtc 180
cagggatata tgccatacaa cagaaccagt tagcagcggc gatgggaatg ggttgctatg 240
ctccaaccac actcattccc ctcaattaca atatcccaac agaaagcatt ggtgctcctg 300
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tgaggagggt tcaattcgct tttcagcttg acttgaccct gatcatcaaa ctagctgcaa 420
tggtgtttct cttt 434
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<210> 46223  
<211> 395  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3078-017-Q1-K1-A5

<400> 46223

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acatctctat atgcatgatt cttgttctgt tattgttaaa tcgtgattac aatacttgta 180  
attgtaaaga agtgtgtggg cacgggagta tatcactgta gttttaattt gcttgtaaag 240  
aaaagaaggg tttttttact tgtgacgcgg gagctagcga ctgcgtcctg ttcgcgtaaa 300  
atgtttgcaa tggatgatga tgcattgacg cagcaacagc tagcagtgtg ctacttccac 360  
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<210> 46224

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A6

<400> 46224

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catccacgag atgttccaga tggtagcgga gcagttcact ggcattgttca cgacgaaggc 120  
tttcttgcaac tgtgacacgg gcgaaggcat ggacgagatg gagttcaccc aggccgagag 180  
ctacatgaac gacctcgtgt ccgagtacca gctgtaccag gactcgactg acgaccagga 240  
ggagttcgac gacgaggacc aggtgcaggc cgatgacatg tgacgggagg gccgatatcc 300  
tggaatgct tatggtcccc taggcaagc 329

<210> 46225

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A7

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ggttcataag caaggagttg cgcttggccg gtccgtggac ctctctaaat tcaccgacta 180  
 cggtgagctc aaagcggaac tagacaagat gtttgagttc gagggcgaat tggatatctgc 240  
 taaccggaac tggcagatcg tttataccga caacgagggt gatatgatgc ttgtcggaga 300  
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 ggtccagaag atgaactcga aatcatccgt gc 392

<210> 46226  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A8

<400> 46226

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 agctggacag caagggcatc ctcaaggggg gcgtcaagtt caggaagagc gactagctga 180  
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 gttctgttct gtacagcgag taacaaccgc tgctgctagc tacattcttt actgtactgt 300  
 acttgtgtga tgacatcata tcttcgcgtc gcgtgtactg aagaactaca cattgcacta 360  
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<210> 46227  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A9

<400> 46227

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 aacggccata caccatggcg gatttctcca agctgagata acattgtttg atgggttatat 120  
 tgtcgtttac aagtttgtac atgaccttca cttttttgtc accgctggag atgatgagaa 180  
 tgagctcatc ttagcaagtg tactacatgg tttttctgat tctgttggtc ttctactcag 240  
 ggggtgatgtt gagaagcgga ctgcgcttga gaacttggat ttgatacttc tctgcattga 300

tgaaattgta gatgggggaa tcacctctgga aacagatgca aacaccattg ctggt 355

<210> 46228  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B10

<400> 46228

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catcgtcggc ggcgccttgt cgcaagcggc gcacgccgag accgtcaaga ccatcaagat 180  
cggagcccc 189

<210> 46229  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B12

<400> 46229

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cgctgtacaa caccagcagc aaagcagatt acaacgcccg gaccgggtgc cttcggaggt 120  
acaaccgcct ggccttccac cacaacaggg agctgaagca gcagcttgac gagcttcaga 180  
agaagtaccc caagacgaag atcatgtatg gagattactt caaggctgca ctgcagtttg 240  
tcgtcaaccc tgggaaattt ggtttcagca cggctttgca agcgtgctgc ggcgcgggag 300  
ggcagggcaa ctacaacttc aaccctgaag aagaagtgtg gcgagcaggg cgcgagcgtg 360  
tgctccaacc cgtcgtcgtg cgtgagctgg gatggcatcc acatg 405

<210> 46230  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-017-Q1-K1-B3

<400> 46230

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 gcccaagacc gcggagaact tccgcgcgct gtgcaagggc gagaaggcg tgggcaagtc 180  
 cggaagccg ctccactaca agggctccac cttccaccgc gtcacccccg agttcatgtg 240  
 ccaggcgggc gacttcaccc gcggcaacgg caccgggggc gagtccatct acggcgagaa 300  
 gttccccgac gagaagttcg tgcgcaagca caccgncccc ggtgtgctct ccatggccaa 360  
 cgccggggccc aacaccaacg gctcccagtt cttcatctgc accgtcgga ccccttggct 420  
 cgacggcaag cacgt 435

<210> 46231  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-017-Q1-K1-A1  
 <400> 46231

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 cgtacgtacg tagatcgatc catcgatcgc tagctagctg acgaccatgg cgtccctctc 120  
 ctctgccgcc atcaccgccc cttccttcac ggccgcgccc gctcgcgcag tggtcagcag 180  
 gaggtccttc accgtgcgtg cctctctccg caaggccact gccaccgccg ccgtggccgt 240  
 tgccgccagc gtctgtcttg ccggcgggcg cgccatggcc caggaggtgc tgctggggcg 300  
 aggcgacggc gggctcgtct tcgagcccag ccagttcacc gtcaaggccg gcgacaccat 360  
 caccttcaag aacaacgccg gttccccgca caacgtcgtg ttcgacgaag acgaggtgcc 420  
 gagcggcgtc 430

<210> 46232  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-G6  
 <400> 46232

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ggctgactgg aacgcgatga ggctgacgga gaaagaattg gctgctgtga agatcaaccc 120  
 tgcggatgtc gaaattatcg ctagtgagct tgagctggac aagaagatcg cggagagAAC 180  
 gctccgtgag cacaaggggtg atgccgtggc tgcgggttcga ttcttgctgc gctagttccg 240  
 agatttcgtc gccagcatca tatgttcccc ttcagttcca cacaagaggt gatgatgtga 300  
 agtgaagcac tagtactttt gtgtgcctgt tttggaagtt tgctattaga actatgttgc 360  
 agaaaattta agaatgagaa taccatgcaa aaggtgtaat atgatttgta ttagttattt 420  
 gcta 424

<210> 46233  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-G9  
 <400> 46233

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 tcctttggag gagacagcgt tgctgaagag cgaggccatt atgcacaaca tagagctggt 120  
 gctgcttaca acgccaaccg cgccgacaga tccgatgaag ggaattgcac atgcttcaga 180  
 aggatttctc tatcttgtga gcgctgtaag tgttacaggt acacgctcaa atgtaaactt 240  
 acatgtagaa cacctaagta gggagatcaa gaagggtaca gacaaaccgg aagctgcttg 300  
 tctcggtgta tcgactccag agcatg 326

<210> 46234  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-H1  
 <400> 46234

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 tgcagaagat tcattgagac tgcataatat gtttcttcc tttactttct ggagttcact 120  
 tttcactggc atgcttcaaa ttgggggtcaa gtactcacao gagacaattc gtactgatgc 180  
 attatccata atgatttca ttgtaaggac aacagatccc atagaagaac gccagaaatt 240

cggatttact tcagtaatga cgagattgca tctgctattg cagaaagaga acggattgct 300  
 tgttaagaag cattctgtgc gtctactttt cttgcttctg aattgccag tgatgttgaa 360  
 gttgctgtgt agtggaggca aagacggctc caaacagatg ggatcggaag cttgtgaaag 420  
 tgatagat 428

<210> 46235  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-H10  
 <400> 46235

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 gccgttcac cttggtggtt tgtgaggtcg aaagcggcga gcgaattaca agatgctgga 120  
 caagctgtgg gacgacgtgg tggccgggcc tcgcccggag acgggcctcg agaagctccg 180  
 caaggtcacc accgcccgcc cgctcgtcat caacaaagac gcggaaggcg gcagctacga 240  
 gcgggctcag tcgatgccgt cgacccttac tacgcccgtg acgccgtcgt cgtcgtcgtc 300  
 gtcgacgacg ccgcgcgggc ccagcaacgt gtggcgcagc gtcttccacc cggggagcaa 360  
 cctggccacc aacggcatgg gcgccaacc 389

<210> 46236  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-H11  
 <400> 46236

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 ggcggtgacc atggcggtgg gcacgccggc ggcgacttcc gccagaaggt atggagcatg 120  
 acggggcgcc cgtactgccg ccccgctccac tggcgccgta acaccgcat cgccatgttc 180  
 ggcgtcttcc tcacttgcac ccccatcgct atgaagtccg cagagctcga gcaacgcccg 240  
 catcaccag tccggccaat cccatctcaa ctgcggtgca aaaactttgg taagaaggaa 300  
 tactgaagga ccctccaact agcatgaagt gcgggcacct tgcttttgcc ttcattttgt 360

ggaaacctgt gcctagccat aatgctgggt taagtgttag gagca

405

<210> 46237

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H12

<400> 46237

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gatcaggagc aagaccttca atttaagacg cacaagctca tctaaggcag atggctcatc 120

acaatctaca gccagttcca acgttcgagc aattttggag aaagccaacg ctatccggca 180

ggctgtggcc aatgatgagg gtggcgatga tgatacatgg agtgatatat gaccacctaa 240

ttgcagacgt tcatggtagt cttttcctgt atattaagct attacaagat gaagggatta 300

aatgtgaata ccattcctttt cttcattgta attagatttt gcaggtcttg ttttgtacct 360

tccttagttc atattagtga atcctaccgt atgtcgtgtg ggtcgtggaa atgtc 415

<210> 46238

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H2

<400> 46238

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tgcagcagat tcattctgct tgagtcacat gtctcttact actactatct caagctcact 120

tttactagc ataactaact ttctcaacca gacctacca gacacaattc atcatgatgc 180

attatgaata ccaatactct ttgagagcac tacgaagacc t 221

<210> 46239

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H3

<400> 46239

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 gtttaacacg gaaccaggta tccaactggg ttataaatgc aaggggttcgt ctttggaac 120  
 caatggtgga agagatccac aaccttgaga tgaggcaggt gcacaaacac cctgttctcg 180  
 acaagggcca gcacgtgctg catcaccaaa cccagcattc gttcgagagc agtggaaagc 240  
 cttctgaccc ttccgactct cagcttggcc aaagcagcag catcacgagg aaccacaaca 300  
 tccctgcgtc ccagggattt gccgatgagc tctccgagat gtcccattct attcagcagg 360  
 ggcaggtaac cttcgcatat aatgggatgt cggcgccaca ccacagcctc gcttcgtcac 420  
 agcacca 427

<210> 46240  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H4

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 ttatgcgaag ggagacgagg agggcgacaa gcagtccttc ttcggaagca tcaccgaggc 180  
 gctggacttc tcgcaggctc ggtcggagaa ggacgccgag ctgctgtacg aggccaggga 240  
 gtccaccaga ggtggaggga ggatgacgag ggagcagtag ggagcactta ggcggaagat 300  
 tgggtggcacc taccaggatt tcttcaagtc atatgttgaa gtcgacgggc aatacgtgga 360  
 ggaggggttg gtcgacaaga cctgcaagat ctgcaagaag gacacaaggg gggagccgag 420  
 gcaagttgac aagct 435

<210> 46241  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H5

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 cgggtccatca gagtgggtact actacctatg agttgagctt ttcttgggtgc acgcccaccg 180  
 tacttccctct tgattcttct accttgatca gagttaggat ctttttttat agttttatct 240  
 ttatgggatg gatttgggtg tatgtagaat gagtagtcga gcttctcttt ggggatttgg 300  
 aacggtgggg aggttgactg gt 322

<210> 46242  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H7

<400> 46242

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 cctccttcga caggatggcg ctccaggatgg cgccatgcat ctcggtgcc gactaccgcg 180  
 agtccacgtc gaccagcagc tgctgctccg ctgtgcacac catcgggcag agccgcagct 240  
 gcctgtgcgc cgtcatgctg taccggcacc ggcagggtg acgggatcaa gccggaagtc 300  
 gtcattacca taccgaagcg cttaacatg gccgaccgac ccgtctgcta caagtgcgga 360  
 gattacacgc tgccttagct gatgaagact ttgtcaacga gaccgtgcga gtgaaccagt 420  
 gc 422

<210> 46243  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H9

<400> 46243

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 ttgtccgcgt cagagaagcc gggccgatgg gggggctccg caaaggccgc aagggtctgg 120  
 gcaacggcgg cactaaacat caccgaagg ggcttcttga caacatccag ggcattacca 180  
 agcctgcgat tcggaagctg tcttagatgg gtggcctgaa tcgcatctcg gggctcatct 240

acgaggagac ccccggcgtt ctctaaatct ttctcgataa cctcat

286

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-F11

<400> 46244

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tcggacagcc catttgcagg tgggggtattc ttggtgaaca ttcacttccc accggattac 180  
cctttcaagc caccaaaggt gtctttccgc accaaggttt tccaccgaa catcaacagc 240  
aacggcagca ttgacctga cattcttaag gaacagtgga gtctgtcttt aactatctca 300  
aaggttctcc tgtcaatctg ctactgctc acggacccaa accctgatga tcctcttgctc 360  
cctgagattg ctacatgta caagaccgac agggccaagt atg 403

<210> 46245

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-F6

<400> 46245

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gagaagcact acgccgatct cgctccaag cccttcttcc agggcctcgt ggactacatc 120  
atctctggcc ctgtggtggc catggtctgg gagggcaaga gcgtcgtcac aactggccgc 180  
aagatcattg gcgccaccaa ccccttggt tctgagcccg gcaccatccg tggcgacttt 240  
gctgtcgaca ttggcaggaa tgtcattcat ggaagtgaca gcattgagag tgctaataag 300  
gagattgccc tgtggttccc cgagggccct gctgattggc agagcagcca gcaccctgg 360  
atctacgaga agtaaacatg gaaagtttca catcaaacct tgagagc 407

<210> 46246

<211> 420

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-F7  
  
 <400> 46246  
  
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 gacgggcctc gagaagctcc gcaaggccac caccgcccgc ccgctcgtca tcaacaaaga 180  
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 gacgccgtcg tcgtcgtcgt cgtcgacgac gccgcgcggc gccggcaacg tgtggcgcag 300  
 cgtcttccac ccggggagca acctggccac caagggcatg ggcgccaacc tcttcgaccg 360  
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 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-F9  
  
 <400> 46247  
  
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 ggcaacacta atgatgatct tagactccca actgatgaga ctcttgtggc ccagattaag 180  
 gaagggttcg aaagcgggaa ggatcttggt gtgactgtcc agtctgcgat gggggaggag 240  
 cagatctgcg cgttgaagga tgttggcccc aagtaacttc cttggctttg gagactgaac 300  
 cctactgtat ctcaacttaa atcggaaaag aagtgtatca ccaaaggatt gctaccgaga 360  
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<210> 46248  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-G1  
  
 <400> 46248

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gtgaaggaaa caattgacct aatggcaacc attgaattca aaccaaacac agctgatgat 180  
cccatatga gaaagccaga tatcaccaag gctaagcaac tgctacattg ggagccaaag 240  
gtctctctca aagaaggcct tccgctaatt gttcaagatt tccgtcaaag gatctcggat 300  
gagtaatcaa agcaattctt ttttccccga atgtgccatg cacgtgtttg taatcagagc 360  
aatcgtatga tactgggtgac cggtttgatt ctgaacgatg ctgcaactac agtcaggagc 420  
tcttcaccaa ct 432

<210> 46249

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G10

<400> 46249

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gattggagta ggcatatctg atgtgggtcat ggctattgtt gcggacgtca tgcttgtcta 180  
tcttctctgct ccaactattg gtttacagcc ggactggca agaaacgctg gagctattgc 240  
caactttttc tataactgcc ctgataatac tttccaaatt gctatggctg gaaggtcatt 300  
ctcacttctg cagaggattg gagcttttgt gaggaatggt ataaagcttt tggcagtggg 360  
aactactgct tctttgattg gcactagtgt cacgaatgca gcgctcaaag c 411

<210> 46250

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G12

<400> 46250

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ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg ccaacgggag aaagggaag 120

ggcaagggcg tgtaccagtt cgtcgacaag tacggcgcgga acgtcgacgg atacagccca 180  
atctacaacg aggatgactg gtctcccacc ggcgacgtct acgtcggtgg aaccactggg 240  
cttctgatct gggccgtcac cctcgctggg atcctcggcg gcggcgccct cctcgtctac 300  
aacaccagcg ccctctccgg ctaaggatat ccaatgcatg cgcttcttgc gattcgtcgt 360  
gtaaaatcag ggtgtctgtc tataatctag cctccatgga tgctc 405

<210> 46251  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-016-Q1-K1-G2

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atcatcgccg gcggccagga cgacgagcgt gggccgcccc tccgcggcgc acgtccctgc 180  
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cgacaccatc ttgggcgcgc tgtacaagga ggagcagctg ctggagacgg accccgtcct 300  
gaacaaggtg gggagcaagg gcaaggccgn cgccgtcccg gcgccaaga aagccgtga 360  
agagggcggc aacggcgggc tcagcctcgg cgggttcttc tccaggccca agaaaggggtg 420  
aacgtacgta 430

<210> 46252  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-F1

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cactgctcaa tgatgggcca tggcttctaa cagtccttcc cattgccatc attggaagag 180

agattacaat gtcagctgtg agagagtggg ctgcatctca gaatagcaaa gttcttgagg 240  
ctgttgcaagt taacaactta gggaagtgga agacagcgac gcagatgaca gcattgactc 300  
tgcttctcgc aagcagagac ccaagtctac ctgcgcaagg cgctctagtt gcccccggtg 360  
ttgctctact ttacgtctcc acgggactcg ccgtatggtc cctagtgggtg tacatgagaa 420  
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<210> 46253

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D6

<400> 46253

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aggatgacaa ggcagatagc tgaagcgggt tattcagttt cgcacaatgg ggccatggtc 180  
gttggtgagg ccaaccacat ttgcatgac tcaaggggga tagagaaaat aaggagcaac 240  
acggcaacaa ttgcagtttt gggccagttt ttggccgacc cttctgccaa ggcgtgcttc 300  
ttacagaatg ttttggattc tgttggttct gcggtatgaa tcgtatcgca agcagcaaag 360  
aaaaaatgt ctagttggag tactatccag caattgaaat ttttagcaat ctactggtct 420

<210> 46254

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D8

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atcgcttctg ccgagcacca gcgcaccatg gagaaggacc ccgagaagaa gaagtacccc 180  
ggcggcgctt tcgacccgct cggcttctcc aaggaccccg ccaagttcga ggagtacaag 240  
ctcaaggaga tcaagaacgg ccgcctcgcc atgctggcct tcgtcggtt ctgcgtccag 300

cagtcggcgt accccggcac cggcccgtg gagaacctcg cctaccacct tcgcgacccg 360  
 tggcacaaca acatcggcga catcatcatc cccagatcaa tctccccttg agctcagctc 420

<210> 46255  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D9

<400> 46255

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 tgagcgcagt ttggaagaca gacagaatct gatatttcga gttacttgct caaaaggaac 120  
 atacattcgg tccctatgtg cggacttggg taaagcactt ggaagctgtg ctcatTTAAC 180  
 tgccttgccg agagactcga taggtgaata ctcggtcaat gatgcttgga acttcgatga 240  
 gcttgaagaa caaatcacca aggggtatct atgagcatgc cagtgcgccc agctagggtta 300  
 tatgcggctt gcaaccagtg gcatccatgc tgccatgtca gtcccaaagc tgtcaacgtg 360  
 ggcttcagcg aagagttgca aatccagttc agttcatact caaccttttg 410

<210> 46256  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E1

<400> 46256

cggacgcgtg gggttcggcga ggccgtctgg ttcaaggccg gctcccagat cttcagcgag 60  
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 tgggcctgcc aggtcgtgct catgggtgcc gtcgagggt accgcattgc cggcggggccg 180  
 ctgcgcgagg tcgtcgacct gctgtacctt ggcggcagct tcgacccctt cggcctggcc 240  
 gacgaccccg aggccttcgc cgagctcaag gtgaaggagc tcaagaacgg ccgcctcgcc 300  
 atgttttcca tgttcggctt ctttcgtcca ggccatcgtc accggcaagg gcccgctcga 360  
 gaacctcgtc gaccacatcg ctgacctcgt caacaacaac gcatgggcct acgccaccaa 420  
 cttcgtcccc 430

<210> 46257  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E12

<400> 46257

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caccctgtcg ctgctcatgg cgctttgcga ccgaggagcc aaccccgagg cattggccgc 180  
cctcgctcgc gagctctcct ctgctgctcc cccaacctcc gccgaggctt cctccccctg 240  
gagcaacggc gccgcggggc cggcctcggc aattgcgccc acgttctcct ccggccttcg 300  
ccgtccctag ggtttgtaat atccttctgt tcccacgatg agactgcttg tcggttagcc 360  
aactagatcc cgcactatgc acttagctgt cgtgaacgcc tg 402

<210> 46258  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E2

<400> 46258

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gctcggaggt ggtgtccacg ttctgctggg tgttcgtcac gtgcggggcg gcggggatct 120  
acggcagcga caaggaccgc atctcgcagc tggggcagtc ggtcgccggc gggctcatcg 180  
tcaccgtcat gatctacgcc gtcggacaca tctcgggcgc gcacatgaac cccgccgtca 240  
cgctcgcgtt cgccgtgttc cgccatttcc cctggatcca ggtcccgttc tactgggcgg 300  
cgcagttcac cggcagcatc tgcgcgtcgt tcgtgctcaa ggccgtgctg caccatcg 360  
ccgtgctggg caccaccacg ccgacggggc cgcactggca ctcgctcgtc atcgagatca 420  
tcgtcacc 428

<210> 46259  
<211> 426  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E3

<400> 46259

cccacgcgtc cgtcttcttg gtccgccgtc tccactccgc gttccctggc tccctgcgtg 60  
gcgtcttggg ggagagagag aagtgggaga cccgcgagag gctgccgtgt agggactagg 120  
gaccgtagag taagcgacag cgaaggaggg agagggggat ggccgggacg gggccgatca 180  
ggcaggactg ggagccggtg gttgtgcgga agaaggcacc caccgccgct gccaagaagg 240  
atgagaaggc cgtcaacgcc gcgcgccgct ccggcgcgga gatcgagacc atgaagaagt 300  
tcaacgctgg tatgaacaag gcggcgctcca gcggcacatc cctcaacacc aagcgctctg 360  
acgacgacac agagaacctc gcccatgagc gagttccaag tgacctgaag aaaaatctca 420  
tgcaag 426

<210> 46260

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E4

<400> 46260

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agattattct cgagttggct gcaaagagca accttaagac agtgacactg gagttaggag 120  
gcaagtcccc tttcatcata atggacgatg ctgatgttga ccatgctgtt gagcttgccg 180  
actttgccct gttctttaac cagggacaat gctgctgcgc tggatctcgc acgtttgtac 240  
atgagcgtgt ttatgatgag tttgtggaga aggccaaaggc tcgtgcattg aagcgcgctg 300  
ttggtgatcc gttcaggaaa ggtgttgaac agggcccgca gattgacgac gagcaattca 360  
acaagatctt gcgctacatt aggtatggtg ttgacgggtg agctaccctt gtgacgggtg 420  
gtgata 426

<210> 46261

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E5

<400> 46261

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aggccggctc cgtcgagatg gtcgaggttg tatatgacag aatgactgga cggagccgag 120  
gatttggtt cgtgacaatg tcttcggccg aagaagccga agctgctgtc gagcagttca 180  
acggttatgc atttcaagga agacagctga ggggtgaactg cgggccaccg ccacctagag 240  
atgaatccac accaagagca ccaaggggtg gtgggtgggtg cggcggcggc tttgtcgatt 300  
cagctaacaa ggtctacgtg gggaaacctg cgtggggcgt tgacaactca actctggaga 360  
acctgttcag tgagcaaggg caagtgttg atgctaaggt catctacgac agggatagcg 420

<210> 46262

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E6

<400> 46262

cccacgcgtc cgcccacgcg tccgcccacg cgtgcggtct tgccaatgca ggggggtgggg 60  
aggccctgag attagaagac ctggaaactt tcagacctga agaagggatg atccttgcta 120  
atgcaacatc attggggatg ta'cccaa'atg ttgatggtac tcctattcca aagaaagcct 180  
tgggtttcta tgatgtggta tttgatgccg tatatgcccc aaaagtact cggcttcttc 240  
gagaagcaga agaatgtgga gttaaagttg ttagtggtgt ggaaatgttt attagacaag 300  
ccatgggtca atttgagcat ttcaccggtg gtatagaagc tcctgaaagc ctgatgcgtg 360  
agatagcagc aaaatacacc tagcaggcta atggcgaaaa cctatctttg atgaatattt 420  
gc 422

<210> 46263

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-E7

<400> 46263

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 gagttgattg atcgattgca gccatgagta agttgcattc cgagcttctc aaggattgca 120  
 tctcccagat agttcaggat gccaaagaaga ataggaagtt cactgagact gttgagcttc 180  
 agattagtct gaagaattat gatccacaaa aggacaagcg ttccagtggc tctgttaagt 240  
 tgccctacat ccctcgtcca aagatgaagg tgtgcatgct tggatgatgcc cagcacgttg 300  
 aggaggctga gaagatggga cttgactaca tggatgttga ggccctcaag aaaatgaaca 360  
 agaacaagaa gcttgtaag aagcttgcca agaagtacca tgcttttttg gcatcagaga 420  
 cca 423

<210> 46264  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-E8  
 <400> 46264

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 ccatctattc gaaatcagct tcttgtaacc tgaactgggt ctgctgctcc accatcaatt 120  
 tatactctac ttcatatgag tcgatcagta ctacgtacta tgtctgcttt aactcgttgc 180  
 tagtggagga aacagggtta ttcaaattctt acatctctgg ttattaaaac tcatcatta 240  
 agcagctgtt gcgaacaacg aagctgactt gttcgatata tacatgactg agctctcaag 300  
 agac 304

<210> 46265  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3078-016-Q1-K1-E9  
 <400> 46265

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 tcaataatcg ctctaattgt ttgcattcca cctgcattga tctttgaagg gcccaagcta 120  
 atgcagcatg gatttagtga tgccattgca aaagtaggtt tgacaaagtt tgtcagtgac 180

ctattcttgg ttggactggt ctaccatctg tataaccaga ttgctacaaa caccttggag 240  
 cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt tgtcatcggg 300  
 ttctcaatca ttgttttttg caacaaaatt agcacacaaa ctggaattgg cacgtgcatt 360  
 gccatagctg gtgttgctat gtactcttac att 393

<210> 46266  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D5

<400> 46266

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 ctgttggcgt gcagggagca gtgcaagga cagacagcgt catagcgatg ctccaactac 120  
 gccattgatg aggctagctg taacgatggg ccacgaataa gaagtttgcc tatggcctgt 180  
 gggggagttc cctgcgggtt ttaaagtgtg ataacaccct tcataatcga tgccttaagc 240  
 tgggtgctgcc gagtgccgac tagctaggcc ggcattgtaag agcagcctag actgatgttg 300  
 atgtggtctg gcagacgtcc tgtgctgtgc ctgcctctgt atttcgggtca aataaataaa 360  
 ctagatggag tttgcatgtt tgcattcagac aaggataacg agaaagtaaa aggg 414

<210> 46267  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C11

<400> 46267

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 ggccacagca gaccagaccc tggaggacgt cgagtgccac ttcgaggccg tgtcggggct 180  
 tccggctcgt gacagcggcc tcagatgcgt cggggtgatc gtcaagaacg accgggcaag 240  
 agcctctcat ggggtccaaga cgaagatctc ggaagtgatg acatcttcag ctatcacact 300  
 atcgtctgac aaaaccgtga tggatgctgc tgttctcatg ctcaagaaga agatccacag 360

attaccagtt gtaaaccagg acgaaaaagt aataggtata gttaccgcg ctg 413

<210> 46268  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C12

<400> 46268

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ccatgttgat gtcaagacaa cgcacaacta catgttgcgt ttgttctgca tcggcttcac 120  
caagaggcgc ccaaaccagg tcaagagaac ctgctatgct caggcatccc agatccgtca 180  
gatccgccgt aagatggttg agattatgat caaccaggct tctacatgtg acctgaaaga 240  
acttgtttcg aaggctcattc cagaagttat tggtaaggag attgagaagt ctacctccag 300  
catcttccca cttcaaaacg tcttcattcg caagggtgaag atactcaagg cccccaagtt 360  
cgatcttggg aagctcatgg aggttcacgg cgactacaaa gag 403

<210> 46269  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C3

<400> 46269

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gactggtaca agggcccaac cctacttgag gctctggact tgatcaatga gccaaagagg 180  
ccttcagaca agccctgcg tctccccctt caggatgtgt acaagattgg tggatttggg 240  
actgtccctg ttggacgtgt tgagactggt gtcattaagc ctgggtatggt tggtactttt 300  
gggcctactg gtcttactac tgagggttaag tccgttgaga tgcaccatga ggctctccag 360  
gaggcccttc ccggtgacaa tggttggttc aacgtgaaga atgttgctgt gaaggatctg 420  
aagcgtgggt 430

<210> 46270

<211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-C4  
  
 <400> 46270  
  
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 cgagcctgat ccacgcgcaa agcattctgg gcatttgggc gtgccaagtg gcgctcatgg 180  
 gcgccggata cgggtaccgc atcgccggtg gcccgatcgt agaggcggtc gacccgctgt 240  
 accgcggcag cggctcttac ccgctcgggc ttgacgacga cccggatgcg tccgcggagc 300  
 tcaaggatcat ggagatcaag atcggaacgc taaccatgtt ctgcatgtga ggctgcttcg 360  
 tgcattccat caacatcggc aagggtcccc ttgagaacct cgtccaccac cttgctga 418

<210> 46271  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-C5  
  
 <400> 46271  
  
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 gtcgctcttc gaggaccgc cggactgcaa gccgtcggcc tccggcggga tgagcgccgc 120  
 ctccgccgcc aggaggagg gcacgcaagg tggtactgga ctacggttga ggagagagat 180  
 ggcagcagca ggcagcgacc agagtcagga gcagaggtga ggaggaggag gaggagctct 240  
 gagacgaaa caccgagac aatggcgagc cagttttccg ctttataaaa tcctgcgggtg 300  
 agtgagttag tgagttagtg agagagagag agagagagag agtgccgtcg ccgccgaac 360  
 aagaaataca acagctgcag ctctctgcag aggttgaat gtatctacta agatgtgggt 420  
 acctt 425

<210> 46272  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C6

<400> 46272

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tttgagaga atgaacagat tgctttctgc ccagcgatta ttgttcttgg aattcactat 180  
tctgatgata agctgctcca gacgagaatc ttctcctatg ctgataccca gaggcaccgc 240  
cttgggtccaa actatctgat gcttcctgtg aatgcaccaa aatgtgcca ccacaataac 300  
caccatgatg ggttcatgaa cttcatgcac agggacgaag aggtgaacta cttcccttcg 360  
aggtttgatc ccgccgtca cgctgagaac gtccccattc cttccctgtg tctaacaggc 420  
t 421

<210> 46273

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C7

<400> 46273

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gacattatct ggttgtgaat gtgactacat gatttacagg tccagaacca ttaaattctta 120  
caaggtcaca acgataatat agactcttga ctatatcaat agccaatgaa gcctttatac 180  
aaacactaga tgtatcatat aagaatatta caatatactt atacttagaa ctactccttt 240  
tgtacaaatt a 251

<210> 46274

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C8

<400> 46274

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gtgcaacgtc gtcaccgagg agagcccgtg ctccgtcatg tgacgctacg cgcttgcttt 120

gtcatgtact cgtegtgtt ggctgttgc tgtgctgcc tgggtactgg acctcggtgc 180  
tacttggggc ggtgccatcc tgtgtagtga aggtacagt catcgtctgc agatgtgctt 240  
gcctcctaca gtctcttata cgaacgtgtc acgccttggt ttattgcagt aattgtgtag 300  
cttcagcta taatttgc 319

<210> 46275  
<211> 400  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-016-Q1-K1-C9  
<400> 46275

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aactctgaag acttcgtgca cctcttgctg tcgctgcaga aagactacgg tctcaccacg 120  
gataacatca agggcactact tgtgaacatg ttcgaagcag ccacgcagac atcattcctg 180  
gtgctggagt actccatgag cgagctgatg aacaaccggc acgtcctggc caagctccag 240  
aaggaggtga ggacggcgac gcccgacagc cgcattgtga tggaggagga cctgagccgg 300  
atgccatacc tgaaggccac catcaaggag tccatgcgca ttcacccgcc ggcgcggttc 360  
ctactgccgg acttctccac ccacgactgc gagatcaacg 400

<210> 46276  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3078-016-Q1-K1-D10  
<400> 46276

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tcctccgacg ggcgtccac cgcaggggaa tacagatcgt cgatccgctg ggcttgcaaa 120  
catgtatatc cgagtgaagc gcaacaagag tacctacttc attcaatgtg aaccaacaga 180  
gacagctttg agcatcaaac agaagttgca ctgcgtgata gatcaacctc ctagtagtca 240  
gcagttggtc ttgtggccta gcagtgatgt gcttgaagac tcaaagactt tggcagatca 300  
aaaggtggat aacgattcca ttgttgcatg ggcactaaga aaagatgacg gtgagtttga 360



ggaagttttc atcgctaggc cggaggattt catgtcatca tca 403

<210> 46277

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D12

<400> 46277

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ccggcgacgc gggggaaaat ggggaagacg ccggtgcgga tgaaggcggg ggtgtacgcg 120

ctgtcgccct tccagcagaa ggtgatgccg gggctgtgga aggacatcac caccaagatc 180

caccacaagg tcaccgagaa ctggatctcc gccacgctcc tactcacccc cgtcgtcggc 240

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ggatgtcctc caagttgctg cggcttgctg cagttgaatt ttccatgatg ggttgtataa 360

tctgtcaatg tcatttcttt gctcagttta agttcaaccc atttt 405

<210> 46278

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D2

<400> 46278

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gctactgatt catgctcaat accttcgtga cccttctaaa cgaatagtac aagatcaata 120

ttatcatgaa gataatgcta accatattcc aatcactcat cttctcactc atacataaca 180

acctcctgaa tatgtacaac accatgaact atttcaaaca 220

<210> 46279

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-016-Q1-K1-D3

<400> 46279

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gtttgggtca acaaattgag gggctgtgac atgggaagtg cttacgaagt tgagattcgt 180  
caggacttgc tgcagttgat gagttgtggc cagaggaaca tcctgcaatt ccatggcatc 240  
tgtttcaatg gaaaccatgg gctctgcata gtaaccagga tgatggaagg gggatcagtt 300  
catgatattc ttacgcagag aaacaagagg ctgtccctcc gggacacggg caggatcgct 360  
cttgatgtcg ccgacactct ggctntcatg aacagctacg gcattgcgta ccgcgatctc 420  
aatgc 425

<210> 46280

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D4

<400> 46280

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tgggttctcc agccagctga gggctgcaac ctctgggtcag gcgttcccc aggtgtctt 120  
tgaccattgg gacatgatgg gctctgatcc tttggaggct ggctcccagg ctgctcagct 180  
ggtgctggat atccgcaaga ggaagggctc caaggaacag atgatccac tttctgagtt 240  
tgaggacaag ctctaaattt gtggttggtg gtgacactgt tacagctgcc ggttcaatcg 300  
tcaattgggt ttactgtaaa tgcagtgtgt gctgctgtgc tgacagtctg atgctctatt 360  
ttaatactcc ctccgtttcg ttttagatgt cgctggatag tgcaaaattg aaccatc 417

<210> 46281

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C10

<400> 46281

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agacatgacc tttggcgagg gagcaggggc cgtcttatcc cgttggaata ccacgtgatg 120

tttggagtaa ctcaacttgc aatattagga tagatagata agggccctat cctacacgtg 180  
tctactgagg ttatacatgc ttaaaaaacg gttaagctta ccatcatgat tgaggaccct 240  
agagatatag aaagaaagag aacactcggg atagaggatc ctgatgaaat tactagggat 300  
gatttagctg acgctttggc tgaggttaac gaaagaaaga ttccagagaa tcgtgttgca 360  
cttcagttgc ttg 373

<210> 46282  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A7

<400> 46282

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ggataatgtt gatgaacttc tggaaactgt catgcttggt gcagagttgc aagaattaaa 180  
ggcaaatcca cataggaatg cgaagggcac tgttattgaa gcatgccttg acaaggccaa 240  
agggcctctt gctaccttag ttgttcagaa tggaacccta acaaagctg atattattgt 300  
gtgtggtgaa gcttatggaa agatccgtgc attgtatgat gactgtggga agctcgttga 360  
caaagcagga ccatccaatg cagtgcaggt tattggcctc aataacgttc cccttgccg 419

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<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A8

<400> 46283

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gattaacttc aaacggctct cacttactga catcaagatt gacatcaaac gcgttcccaa 180  
gaagtcaacc ctgatcaagg ctatggagga agctgatgtg aagacgaagt gggaaaacag 240  
ctcatggggc aagaagctga ttgtccagaa gaggagggt gcgctcagt actttgacag 300

gttcaaggctc atgctggcaa ggatcaagag ggggtggctgct atcaggcaag agctcgccaa 360  
gctgaagaag gcgtccacgg ctttaagtccc ttttgggtgga tggcatgtta gtttttg 417

<210> 46284  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A9

<400> 46284

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atcctcagcg acgacggcat cgccatcacc gccgagaaga tcgccaccat cgtgaaggcg 180  
gccaacatca aggtcagatc ctactggccg gcgctcttcg ctaagctcct ggagaagcgc 240  
agcggtgagg atctaatect ctccgtggga tctgggtggg gcgctgctcc agttgctgct 300  
tccgccccag ctgggggtgc tgcagctgct gctgcccctg ctgcagagga gaagaaggaa 360  
gagcccaagg aggagtctga tgacgacatg ggcttttagcc tgttcgact 409

<210> 46285  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B1

<400> 46285

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gcccccaagc tacctgaccg gcgagttccc cggcgactac ggctgggaca ccgcggggct 180  
gtccgccgac ccggagactt tcgccaagaa ccgcgagctg gaggtgatcc actgccgctg 240  
ggccatgctg ggcgcgctcg ggtgctgtgt cccggagctg ctgccccga acggcgctca 300  
gttcggcgag gccgtgtgga tcaaggccgg gtcccagatc ttcagcgagg gcgggcttga 360  
ctacctcggc aaccgagcc tgatccacgc gcatagcatc ctggccatct gggcggtgcca 420  
ggtggtgc 428

<210> 46286  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-B10  
  
 <400> 46286  
  
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 aagagatcga gacgcaggag tcatggccac cgtcagcgcc gccgtggtga ccaccatcgt 120  
 tgcccgcgcc gcgatcgcca ggcccaatgc tctagggctg cctgcgctga gggcgaggag 180  
 cgagaggggtg cgggtgcagct acgccaagga cgcgccccca gtcagcacca agggcgcaag 240  
 cgcgtcgctg ctgcgcgag cgggcgcggt gaccgcgtcg gcggtgcccg cgctggcgct 300  
 cgtggacgag cgcattgcc cggagggcac cgggctgagc ctggggtca gcaacaacct 360  
 gctgggggtg atcctcctgg ggggtcttcgg cctcatctgg tccc 404

<210> 46287  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 46287  
  
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 cgtcagcgcc gccgtggtga ccaccatcgt tgcccgcgcc gcgatcgcca ggcccaatgc 120  
 tctagggctg cctgcgttga gggcgaggag cgagaggggtg cgggtgcagct acgccaagga 180  
 tgccaagaac gcggccccag tcagcaccaa gggcgcgaggc gcgtcgctgc tcgccgcagc 240  
 gggcgcggtg accgcgtcgg cggggccccg cgtggcgctc gtggacgagc gcatgtccac 300  
 ggagggcacc gggctgagcc tcgggctcag caacaacctg ctgggggtgga tcctcctggg 360  
 ggtcttcggc ctcatctggt cctctacac catctacacc tntgacctcg acg 413

<210> 46288  
 <211> 222  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B12

<400> 46288

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cccacgcgtc cgttgaaatt caaatgattg taattagttc aatgagaaaa attactagcg   60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaaaaaaaa 120
aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaga aataataaaa aataaaaaaaaa 180
aaaacataaa aagaaaagga taaaaaagaa aaatgaaaga gg                               222

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<210> 46289

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B2

<400> 46289

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gacaggatga tgggcgtgat actgtggaag ctaatgagga acttgggtctt cctgtggact 120
cacgggaata cgggattggc gcacagatat tgcgggatct aggagtccgt tcaatgaagc 180
tgatgactaa taaccctgcg aaatatagtg gtctcaaggg ctatggattg agcattgcgg 240
gcaggggtgcc cttgattacg ccaattacca gtgagaaccg taggtacctg gagactaaaa 300
gaacaaagat gggacatgta tatgggttgg ccaatgcgca ggccaaccta gcaaatggca 360
gccagagcac agaagagaat cattaggccc ccaagcatgt ttccattatt attccagcaa 420
tccagc                                           426

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<210> 46290

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B3

<400> 46290

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ctcttccgct acatcgccgg gtggatcggg tgggtcggca ggagctacct catcgccatc 120

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agcggcgaga agaagccgcg catgagggag atcatcatcg acgtcgagct cgccacccgc 180  
ctcctcccca gggggttcat ctggcccgtc gcggcctacc gcgagctcat caacggagac 240  
ctcgtcgtcg acgacaagga catcggctac tactagctgc tgcacctgtg cttgcacatc 300  
gctgctggcg agttgggcag tcgtcgtacg tgggaaacat ggcttttggg gtaggaggaa 360  
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acttcacccc 430

<210> 46291  
<211> 418  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gggccagcgg cttacaagct caccatccaa aggaaccaa agcgtccaag aagagtctcc 120  
accaagaga aaaacctgtt cctctagtct aatgggcttc actaagaaag atcagaacag 180  
agagtagcag tgctcctcca tcacaattga cacagcgcag ctactttgga cgtcctcttc 240  
ttctgggtact gctccctgac ccacttgatg cccgagctcg tcccggctct gagcttgtgc 300  
gctccgacca gcgccgncgn cttggccttg acgagtcctt acgacgccga cgccttcacg 360  
ttgccggcca cgtcctctt accggccgcc ttgccgttcg cgctgctccc gtcgccct 418

<210> 46292  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B7

<400> 46292  
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gagtacgggc agtgtggtga ggagcctgag aggaaggagg acgggacgag ggcgctcagg 120  
agggacatcc cgatcccgcg gcggtgcgcg ctcaagctca aagtccggca agtagccgct 180  
ggagggacac attcagtagt ttgactcaa gaaggtcacg tctggacatg gggacagcca 240

tggcctccgg gtgatatcaa gcaaatatct acacctgtac gtgtgcaagg ccttgagaaa 300  
 gtgaggggtca ttgctgtagg tgcattccat aatttggcac taacggagga tgtaattttg 360  
 tgggcatggg gtaataatga gtatggtcag ctggggactg gagataccca accaagatca 420  
 c 421

<210> 46293  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B9

<400> 46293

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 cccaaggagg agaacgtcac ccttggaccc actgtccgtg aaggagagta tgtcttttgt 180  
 gttgctcaca tctttgcac cttcaatgac accttcattc atatcactga tttgtctggg 240  
 agggaaactc tggttcggat caccggtggc atgaagggtga aggctgaccg tgacgagtcg 300  
 tcaccttaag ctgctatgct tgctgctcaa gatgtcgcac agcgcttcaa ggagcttggc 360  
 attactgcac tgcacattaa gcttcgtgcc accggaagca acaagaccaa gac 413

<210> 46294  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A6

<400> 46294

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 ctgtttctcc aagattcaag ttggctggcc gtgcttatcc gtgcaggagc tgaagcaggt 180  
 ttctgccctg ttgggtgtga tggatatcat cggtagccgt actttgcgtc gctttattcc 240  
 catctttgct ggtgagggtc tatgtcagcg ttgtcacact cgtttatttt gttctcatat 300  
 tcttcggttt cccgttcgta ccggcggcgc gtgcattttg cgggtggggct cctggatctc 360



gctctggacg gaggcacaga cagcttcctt ggcgtcccca aggtgctggt agattcacc 419

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<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H12

<400> 46295

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ctgctcttgc ataccgtggt ccagctctta taccagaat aaaggctgag ctagcagaat 120

gtttggaaag agacggatcc aaatctgtgc aggaagcagt cggcgctgat ttccgatgat 180

ccctggcgga tcgctgacaa ggtctgaata accgttcctg taaagttcat gtgattttga 240

tgagaagcaa gcaactcttt ttttgtgtgt gtgggcacga tgcttgccaa ttccatttga 300

ccggtacttg aaaagaaata ccgggttgaa actttgctgg gggtgagttg agtaatgagc 360

ggctgtatca cgcgcgcgta catgagcttt tg 392

<210> 46296

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H2

<400> 46296

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ccaggaaatc caacaggaca ggtccttacc gacgaaaacc agaagaaaat tggatgaattc 180

tgcaagaatg aaaggctcgc tcttctcgcg gatgaggttt accaagaaaa catatatgtc 240

gaagacaagc aattccactc gttcaaaaaa atcgacgga cgctgggata cactgatgac 300

gaccttgctt tggatcgtt ccagtcgatt tctaaaggct actatggaga atgtggaaag 360

cgacgtgggt acatggagat aactgggttc agtcctcaag tacgggacca aatctacaag 420

atggcatc 428

<210> 46297  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3078-015-Q1-K1-H3

<400> 46297

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gagcactacc gccagcaggt ggctcgagct ggccacgctg cgcgcgctgg cgcgcgacgc 180
cgcgagacag cttcggctgc cgcgggccgg cacgtcggcg tcggcgctgt cgtcgtcgcc 240
gtggcgcggg cgcgaggacc acctccacgg tcacggcaag acggccaagg tgatgcacct 300
gctgctcttg ggaccaagt gaagcggcgg cgagaggcca ccgtaccgnc gggctctccc 360
gacggcgttg ctcgttttgc tctgcctgca atcogtcccg tacggactgt actgtaccta 420
tacacctata tactac 436
  
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<210> 46298  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H4

<400> 46298

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ttcacggtgg agaagaagct tgctgaaggg gatgtgaact ggtcaaatat tccagaatgg 180
aagacgaagc ccaagaggat gagagcgcac tatgaagtcc ttgctcgagt ggaggagggt 240
caggcgatcc ctgagaggat agcgcaggta cagcctttcc aggccaacga ggccatgtcg 300
gagagtgtgc tcaccggcaa cgtcacgagg tcgaagatgg aaatcgtcca tccaccgtcg 360
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tactacacgt tgg 433
  
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<210> 46299

<211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-H5  
  
 <400> 46299  
  
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 gtttgtgtaa caccaacgtg gatgggaagc agaagatcat gttcgccatg acctcaatca 180  
 aggggtgtcgg gcgcgcgttc tccaacatcg tctgcaagaa ggccgacatc gacatgaaca 240  
 agagggcccg cgagctgacg cctgatgagc tggagcgcct gatgactgtc gtggccaacc 300  
 ctaggcaatt caaggtgccg gactggttcc tcaacaggaa gaaggattac aaggacagca 360  
 ggttctcgca agtcgtctac aacgcccttg atatg 395

<210> 46300  
 <211> 182  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-H6  
  
 <400> 46300  
  
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 gcgtttgcta aacaccaacg tggatgggaa gcaaacgac atgctagcca tgacctcaat 180  
 ca 182

<210> 46301  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-H7  
  
 <400> 46301  
  
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cagccgtttt gagaagaagg gcttctacct caaggccttg aagcttgtga acgtggagag 180  
gtcgtttgct gagaagcact acgccgatct cgctccaag cccttcttcc agggcctcgt 240  
ggactacatc atctctggcc ctgtggtggc catggtctgg gagggcaaga gcgtcgtcac 300  
aactggccgc aagatcattg gcgccaccaa cccctgggt tctgagcccg gcaccatccg 360  
tggcgacttt gctgtcgaca ttggcaggaa tgtcattcat ggaagtgaca gcattgagag 420  
tgctaataag gag 433

<210> 46302  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H8

<400> 46302

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tcccggggca ctacggctgg gacaccgcgg ggctgtcgcc ggaccggag acgttcgcca 180  
agaaccggga gctggaggtg atccactccc gctgggccat gctgggcgcg ctcggtgcg 240  
tcttcccga gcttctgcc cgcaacggcg tcaagttcgg cgaggccgtg tggttcaagg 300  
ccggtccca gatcttcagc gagggcggc tggactacct cgggaacccg agcctcatcc 360  
acgcgcagag catccttgcc atctgggcct gccaggtagt gctcatgggc gccgtcagg 420  
gctaccgat c 431

<210> 46303  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H9

<400> 46303

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accggaagg gctccgcgac aacatccagg gcacaccaa gccggcgatc cggaggctgg 180

ctaggagggg tggcgtgaag cgcacatcgg ggctcatcta cgaggagacc cgcggctgtg 240  
 ctcaagatct ttctcgagaa cgtcatagcg gacgcggtca cctacaccga gcacgcgcgc 300  
 cgcaagaccg tgaccgtcat ggacgtcgtc tacacgtca agcgccaggg 350

<210> 46304  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A1

<400> 46304

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 agctaattgga gctaacgttc agacatatgc tgccaaactt taatgagtgc tgggtgggata 180  
 gcattatctt ggacatattg atctgcaatt ggtttggat ttgggcagga atgcacacag 240  
 tccgtcactt tgatggcaaa acttatgaat gggttggact gagccgcaa cgaagtatca 300  
 tgggtaaggc gaaaagatcg ttgagccagt tcaactcctgc tcaatgggac aaggatcagt 360  
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 tg 422

<210> 46305  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A10

<400> 46305

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 ggacaagagg ttgaggcagc agctgaggaa acgaaaaaga gcaaccatgt cacgaggaag 180  
 cttgagaagc gcaaggaggg acgtaccctt gaccacaca ttgaggagca atttggcagt 240  
 ggacggttgc tggcatgcat ttcttccgc cctggacagt gtggccgtgc tgatgggtac 300  
 atccttgagg gtaaagagct tgagttctac atgaagaagc tacagaggaa gaagggaag 360

agcgctgtag cttagagcat tctcatggat tgtcttgcaac cgaaatgtgt 410

<210> 46306

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A12

<400> 46306

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cgtatcaagg tccacttgaa tgcactgaaa agatacacct atgggaagca tatcgtggca 180

cgtgttgaga agcttattgc tgcaggagaa cggcgcattg gtgccccatc ctcttgctga 240

gatggcaata aagctatata caggtcgcag aataacacct gtacagacag acagggatag 300

cgaggcctag ctttttacca ttaccagtag tcggtaatat tgagcgacgg agagggtaaa 360

aaaggctccc aaatcctttg atgtaaataa aggatagccg ctggaa 406

<210> 46307

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A4

<400> 46307

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ttacactgcc aggactacg ccgacattct tgagttcctt gttgacaggt ggaaggtggc 180

ggacctgact ggtctgtcgg gtgaggggaa caaggcgcag gactacctct gcacccttgc 240

ttcaaggatc cggaggctag acgagagggc ccagagcaga gccaagaaag caggcacgct 300

gcctttcagc tgggtatatg gtaggggaagt ccaactgtga aatcggaac ccattgcgac 360

tgcttgagtt ggagcatagt ctatcatgca ccctaagacg catcgcgacg acaagacctg 420

gtgtgtc 427

<210> 46308

<211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-016-Q1-K1-A5  
  
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 gcctcgccat gttttccatg ttcggcttct tcgtccaggc catcgtcacc ggcaagggcc 180  
 cgctcgagaa cctcgctgac cacatcgctg acccagtcaa caacaacgca tgggcctacg 240  
 ccaccaactt cgtccccggc aactaagctc aacggctatg ctatgcaact tcattgtctt 300  
 tcggatcgga gaggggtgtac gtacgtggat tgattgatgc tgcgagatgc atgtgtgtct 360  
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 atg 423

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 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-H11  
  
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 gtgctactag cagtctagca accagctaac tcgggctgga ttacgcagcc atcatctgat 120  
 acgactggca ccaccactta ttcaaccatc acacctaggt cgaggtgcac aacgtctaca 180  
 agtactgggt ctccatgact gaggaggtca catggaacat gcagggcgag tacgagaggt 240  
 acaagaagga tgagatggaa cacaggcaca aacagctcct aaagaaggca tgctcaa 297

<210> 46310  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-F6  
  
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 aaactcccca atgatcttga aggaatcgct tactgaatgg agaagctcta cattcttatt 180  
 gatgagatct acagatacct ggatgatgct ggacaaagac gcgcggcacc tgatcacaaa 240  
 atcgaacggc tgctatctca atcctgtgct tcaatgcaa gattcgcccc aggtgctgac 300  
 gatcagcttt taaatgacaa gattcaggat aaccttgccg tagtatacct gtcaagcatc 360  
 acaag 365

<210> 46311  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F8

<400> 46311

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 gccctacttg ctacgaggac cagcagctcg gatccctctg cgcgcacctg gaggaggagc 120  
 acccgttcga accccaagcc gcggcctgcc ctgtctgctc agagatgggtt acgaaggata 180  
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<210> 46312  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F9

<400> 46312

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 ggaagaagcg aaagtatgag cttggtcgcc agccggccaa caccaagttg tcaagcaata 180  
 agacagtgag gagggctcgt gttcgtggag gtaacgtgaa gtggagggct cttcgccctg 240  
 atactggtaa ctactcatgg ggaagtgaag ctgttaccg caagaccgt atcctcgacg 300  
 tgggtctaaa tgcataaac aatgagcttg tgaggacaca aacccttggtg aagagtgcc 360



ttgtgcaagt tgatgctgcc ccattcaagc agtggtacct cactcactat gga 413

<210> 46313  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G1

<400> 46313

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cgtccgtggc cgggcttcgc ctggcgccgt ctaccggggc gcgcgtggcg ttccgcgcgg 180  
cgcgggcgcg gcggtacgtt gcggcgcgcg cggagctgag cccgtcgctg gtgatcagac 240  
tgagcacggg cgtgtcgctc ttactgggcc gcttcgtctt cttcaacttc cagcgggaga 300  
acgtggcgaa gcacgtgccc gagcagaacg gcaagacgca c 341

<210> 46314  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G11

<400> 46314

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cacgtacgcc gcacgcccc a gccgggatcc aaattaaaga acttcttctt ctattaatta 120  
cagtatattg taatttggct gctggtacgg tgggtggcatg atttgagatg tgcgatgatga 180  
tccttgtgta attttattac caagtctctt cttatattta catgttcatt tgcttgcttc 240  
ttggtat 247

<210> 46315  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G12

<400> 46315

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tgcactgtat tataattggg cttgtaccac ttgagtacaa ttacttcata tgcgcatgat 180  
gatacatcac aaattacatc taccatgact gttattatat ttacatactt catattcttc 240  
cttactacct agctttttcat ctatgacctg tgctgtctg tctacatcat ccaagattac 300  
ctactcgtgt atgacaccat catacctctt ctataatgta tatctaattc atttgattgt 360  
ccgtatTTTT actacgtaat gac 383

<210> 46316  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G2

<400> 46316

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cggcgcggcg gggcgttcgg cggccagatg aacgccgtcg ccgagatctt caggatcgcc 180  
ggcaccatga gcggcctcgt gctcgtcggc atcgccgtcg gcttcgtgct gctccgggtg 240  
gaggccgacg acgaggaggc cgagtaaggc gctcgcgcct gcttcataag ccgtgatata 300  
tatataaaaa cgtgatgtat gctttcgatt caatctttgg tatgtactgt atcaacgatg 360  
acaattgatg aatact 376

<210> 46317  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G3

<400> 46317

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tgagtcacag gaccttttgt tgaacaagct tcttgagaga gattttctaa ctgaagaaga 180

aagggacata cttcgttggg ggcggaatat tgtagcagc aaaactcgca ccaggaagcg 240  
 tgcaggaatt gctgtctaca accgggcatc ttactcgaa acactaattg gatatcttta 300  
 cctcacaat ttcaaacggt tggaacaact gatgtttcaa ttgggcttca caagtgggtgc 360  
 ctcatcacag catattgcag acgagctgcg ctcaagtttc cagaaaacaa cccccg 416

<210> 46318  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G4

<400> 46318

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 cgactcacag gaccttttgt tgaacaaact aatcgcagaa gatataattaa ctgaataaga 180  
 aagggacata cttctctggt cgcggaatat tgcaacgcag ataactcgta ctacgaagcg 240  
 agcacgaatt gctgtatacc acactacgat gttcactcga aacactaata gcatatattt 300  
 actttacaaa cttcgaactg tcggaacaac tgatgtttca att 343

<210> 46319  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G5

<400> 46319

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 ggcagcggca gcggcagcag cgatgcgcgg cgggcgtcgc gtccacctgc ggggtgtacat 120  
 gcacgacgtg atccgggggc cggggcagac ggcgatccag ctggtctggg gcgtgggccc 180  
 gccgcacgcg accatgccgg ggcggtcctt cggcgacacg gcggccatcg acgacagtcc 240  
 tcacggaggg ccagacatc ggctccgcgc ccgtcggccg cgcgcgggca gggcacctac 300  
 atgctcagct cgcagcggga ggggcggtgc tcgtcgtgga cgtcacgctc gcgctcaccg 360  
 cggggccata caacggcagc acgatcgtgg tggccggccg cgaccgcgta caggacgaga 420

cgagggagct cgcg

435

<210> 46320

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G6

<400> 46320

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tagctgaaca tgttgtggca tgtgccccaa gacgtgatgg tgggcgcggt cgacgcggtc 120  
acgtcatcg gtctcatgga gttgtttctac gaccaaacgc tcaacgcgaa tctgagcctc 180  
tgatgcgaga tgttcatgac gtactacaca ctcacgatct acctaagcta cgcgctaatt 240  
accgtggtgt ctgcgccag caatcgccgt gggca 275

<210> 46321

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G7

<400> 46321

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aagatcttct atatcctatg gtccccatac tccgccaagg tgaagagcaa gatgctttat 120  
gcaagctcaa accagaaatt caagagtggc ctcaatggca ttcaagttga actccaagcc 180  
acagatgcga gtgaaatcag cctcgatgag atcaaggatc gggcacgcta ggcgcaccga 240  
catcgcgagt ttcattggtca cgcattcatgg actcgctac tactgggat ttgtacgcca 300  
ttatagacta ggtgctgcta aagactgctg tggtgatttg tgggacagat gctgcgtaaa 360  
aagatcctca tggctttcag atgaccatga aagggttgat ctatcatgta atttcatgtt 420  
atctgc 426

<210> 46322

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G8

<400> 46322

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cagtgatctg gaggcattgt cagtatttgc cctctttgac caagctcgag ataactagtc 180  
ccataatttc catttgtggtt ggaagtgaag caggagcgct cagggctagc aggtatttgc 240  
taagatctgg atttcatggt acaccaatca gaccaccac ggtgccaccc aactcatgca 300  
ggctgagaat cactcttagt gtttccatt cctcggacga catcaaaagg ctggttgatg 360  
cactcacacc atggctccct gtcaaatatg gtaatgggag ctatgctaca gtttcaaaac 420  
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<210> 46323

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-015-Q1-K1-H1

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atgctgatgt tgaccatgct gttgagcttg cgcactttgc cctgttcttt aaccagggac 120  
aatgctgctg tgctggatct cgcacgtttg tacatgagcg tgtttatgat gagtttgtgg 180  
agaaggccaa ggctcgtgca ttgaagcgcg tcgttggtga tccgttcagg aaaggtgttg 240  
aacagggccc gcagattgac gacgagcaat tcaaaaagat cttgcgctac attaggtatg 300  
gtgttgacgg tggagctacc cttgtgacgg gtggtgatag gttgggtgac aagggtttct 360  
acatncagcc aacgattttc tcagatgtcc aggacggcat gaa 403

<210> 46324

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-H10

<400> 46324

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tccctcgccc taagatgaag gtttgcacgc ttggtgatgc tcagcatgtt gaggaggcag 180  
agagaatggg tatagacaat atggatgtgg aagccctcaa gaagatgaac aaaaacaaga 240  
agctagtga gaagctggca aagaagtacc atgctttcct tgcacatgag gctatcatta 300  
agcaaattcc tcgtcttctt ggtcctggc ttaacaaggc aggaaaattc cctaccttgg 360  
tgacacacca ggaatccctt ggtccaagg ttaacgagac 400

<210> 46325  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F5

<400> 46325

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ccatggggaa gacacgtggt atgggagctg ggcgcaagct caagaccac cgcaggaacc 120  
agaggtgggc tgacaaagca tacaagaaga gccacttggg caatgagtgg aaaaaacctt 180  
ttgctggatc atctgacgcc aagggcatcg ttctggagaa gattggtatt gaggccaagc 240  
agccaaattc ggccatccgt aagtgtgccc gtgttcagct ggtgaagaat ggaaagaaga 300  
ttgctgcctt tgtgccgaat gatggttgcc taaactacat cgaggagaat gatgaggtgt 360  
tgattgctgg atttggtcgt aagggtcatg ctgtgggaga catt 404

<210> 46326  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E1

<400> 46326

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gagagaggaa atcgaacttt gagaacttcc agaaatggct tgaaaagcat gggccttttg 180

aggcagtcgt ggatgctgcc aatgttggcc tgattagcca caaacacctt tctttgagta 240  
 aggttaattc tgttgccgat gcaataaggc taaagtttac gtcaaaaaaa tggcctttga 300  
 tagttgtaca taacaagcat ctcatggag agcgcagag aaaacttaat gatcacaagt 360  
 tggtagaaaa gtggttagcaa gaaaattcaa tatatgcaac ccctactggt tcaaagtatg 420  
 attggtac 428

<210> 46327  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E12

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 atactccaaa tggagtcac cctgatgatt ggaggatata tcttacgctt ggggctggtg 180  
 gagggggtaa tgaagaacct acaagtgttg atggcctaaa atcacagcca aaagttccat 240  
 caaaagaggc aggagttgaa cctttacttg atgctgcttc tgctctccca agcatgaaca 300  
 atgacagatg taatgtatct aatctaaacc cgagaaggat tgaaaatata ttttctcatc 360  
 ctgcaccaacc acggtctgtt aggcctcgtt tgtgtttgtc attagattct gat 413

<210> 46328  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3078-015-Q1-K1-E2

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 gaacccaagc gtgcaggaca agctctacca ggagatgatg gagaaagcca aagccaccac 180  
 tgacgcttct gctggcgtgc taccgttctc ggaggatgac ttgccaaga taccctacct 240

gagagcgggtg gtgcttgatg gtctgcggcg ccatgctacg gggcaccaaa tgccttcaca 300  
cagggttgag gangacgtgg atgtgggtga ctgactggtg ccc 343

<210> 46329  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E3

<400> 46329

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agaacaaagc aaagtactaa gaatgttcac aatgctttga cgaggaggga ctatgtgtgc 120  
tcctcaattc aaggatccct tgaccaatca gagagggaaa agataatata ggaattcaaa 180  
gatggctaca ccaaggttct tatatcaacc gatgttcttg ctcgaggttt tgaccaagca 240  
caggttaacc ttgtcatcaa ctacgacatg ccaatcaaat ttggtacaag agatgaacct 300  
gattatgaag tgtacttgca cagaattggc agagctgggc gctttggccg gaaagggtgct 360  
gtgttcaact tgctgtgtgg tcaaaccgat aatgttgtga tg 402

<210> 46330  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E4

<400> 46330

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gcgtcggcgg ctctctgcaa cgccgggcag ctggcggtt gcgcgccggc gatcacggcc 180  
ggcgcgaggc cctccgcgtc gtgctgtctc aacctcaagg cgcagcaggg gtgcttctgc 240  
cagttcgtga agaaccacac ctacgggcgc tacatcaaca gcccacacgc gcgcaaggtc 300  
gtcgctcct gcggcgtctc cgtgccgcgc tgctagtacg tgtacgtgtg tgcaatgtgc 360  
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atc 423



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 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-E6  
  
 <400> 46331  
  
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 ccgacgcccc cacccaagcc caagccggcc ttggaccagt gcccacatga cgcgcttaag 180  
 cttggcgccct gcgtggacct tctcggaac caagtgcacc tcggggaccc caacgtccaa 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-E7  
  
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 ggagtttact aggggtgctca aatccaagcg gcaggtggtg accgggaccc tgcattgacct 180  
 gatactggag gcagctgatg ctggaaaaaa gagtgtgtac agagcaaagg tttgggtgaa 240  
 gccgtgggaa gatttcaagt ctgtcgatga gtttcgcctt gatggagact ctgaatctga 300  
 acccgagcct tctgttgctt ctgatgtag ctctgggcaa gatattgtac aagaagaggc 360  
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 ata 423

<210> 46333  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3078-015-Q1-K1-F1

<400> 46333

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cgctctcggc agcatggagg aagccaagaa gaacatgtac gcgttcagca cgaccaccta 180

caccgggttc cagtgcaccg tggacgagga gacgtcggag aagttcaagg gtctgcctgg 240

ggtgctgtgg gtgctccctg attcctacat cgacgtgaag aacaaggact acggaggtga 300

caagtacgtg aacggcgaga taatcccctg cacgtacccg acgtaccagc cgaaggagcg 360

gaggacgtnc aagtacgaga gcaggcggta cgagaggcgg agagatgggc caccggcggg 420

cagcaggaaa ccg 433

<210> 46334

<211> 418

<212> DNA

<213> Zea mays

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<400> 46334

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ttcaatatgg aatggtgcaa aggatttggg taagaagatg ctgcgacaag acccaaaaga 120

acgcctgact gctgctgaaa ttttgaacca cccatggatt agagaggatg gagaggcccc 180

agataagcca cttgacatta ctgtcattgg tagaatgaaa cagttcaggg caatgaacaa 240

gctcaagaaa gttgcattga aagttgtggc tgagaactta tcagatgaag agattatggg 300

cctaaaagaa atgttcagat ccttggtac agatgacagt gggacaatta ctcttgaaga 360

gctaagatct ggtttaccaa aacttgggtac aaaaatttct gaatcagata ttaaacia 418

<210> 46335

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F12

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aacgtgtgtg cgtgcgtacg tgtacattgc atccatcttg gttccaatgg acatatagct 120  
cctgttgctc ctct 134

<210> 46336  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F2

<400> 46336

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ggtgctcaag gccgaggtgc cgctgatgga cgcgctcact gactgcgcct tatcgatccg 180  
actactatgc ggatggaagg tgagctgctc aatcccagac gaggtcgtgc ggacctgcta 240  
cgagaag 247

<210> 46337  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F3

<400> 46337

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tgtgccgcat gtccaggaac gggttctggc agtgggagga cgagtgcccg ccgtcggggcg 180  
cctggaaggg caccagcgga ggccacgccg tgctcatcag cggatacagc gagggcaaag 240  
gcaacttcgc catgatgccc gacgcccacg cgtcggtcgt cggggccatg acgcacagct 300  
tcgtccggac gctggagtgc cagccgcgcg gggtcaccta cggccacctg ctcagctcca 360  
tgagggccat catgaagaac cgcggcgggg gctgcgac 399

<210> 46338  
<211> 417  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-015-Q1-K1-D8

<400> 46338

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ccaggggcccc atcgacaacc tgctcgcgca cctcgccgac cccggccact gcaacatctt 120  
ctcggcattc acgtcccact gatccgatgt tgcttcggag ctggcggaga gaccgcgaag 180  
aattaaaaaa aagggcatcc tggtgaggga gaaagaactt cgcttggtcg gtatcatttt 240  
ggccctgctg gacatgtcaa cattttgttt gtagtacctg cgtagaaatg tcaaaccacc 300  
tgtacaaacg taaaaatacc accccaggga tcgcgatgat gctagccagc agtccagcac 360  
acactagctn gtcctgaaga tccatgcaac accgtataca gaggaaatth atggaca 417

<210> 46339  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C2

<400> 46339

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tgcagctacc gctcgtccg gtctcgggga agagctcgcc atcgtccgtg gcgcacgtgg 180  
cgcgccgggc gccgacggct atggtggcgg ccaaggggtt caatgtgcag atcctggtgg 240  
acgagaacga gggggaggag tccatctttc gcaggttctt gcgggagggt atgcgcgccg 300  
gcgtgctgca ggagatcaag cgccgtccga tgtacgagag caagac 346

<210> 46340  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C3

<400> 46340

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cctcgtgtac ctcgtcccg gcccggacgg cgacggccgc ctcgacgtcg tcgtggccat 120  
 ggagcccaag agcctggcca gattcaagga gctgttgtag gagctcaaag gtgcagggtg 180  
 tccgtgcacg gcagactgag ctgctgcatt ccgtgcagg tcccttggtt gctaccggct 240  
 ggcaaaacga aaacctgttt gccggattgt tccttgcatt gcgtatctac ttcgaccttt 300  
 actgcagtac tcctagtttt ctactcgttg tttgtgatcg caatctggtg agtactgtac 360  
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<210> 46341

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C4

<400> 46341

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 ttcttttttg ctgaagcggg acctcttgac aggaatccga gatgggtccc atgaaccatt 180  
 catcgcagac tcagtagatt ttgttgtggg tcagggtggag acattgtcaa gagatgatct 240  
 ttcacacagg ttgatgttaa atgttaatgt tgcacccgtt gggtcgttaa tgttgccctga 300  
 ttcactcatc actataatgg atacaaatga ctactctgca gttccccagc agttgaagga 360  
 acagttgaat gaaaggtagc ctggtgcaag gcgtgctgta ctg 403

<210> 46342

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C6

<400> 46342

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 aacctcgttc tgaagaatct gctcagagca agccacttgg agcttccctga ttgttcacgc 180  
 cctggaaaaa ggaatcggc aattacatgg tttgttcggt caaatgagt gatgttttaa 240

aatgcgtggtt attaatcaag ggcctggata ttctttgttt tttgctttta ttgacattag 300  
atgtacactt gatttatgga tatgttttgt gtcttgggtt acattctttt ctgtacacat 360  
atagtttcgt ttgtgtttat catgtcatct gacacagtga gttgtctagc cagaagccgg 420  
ttgagt 426

<210> 46343

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C7

<400> 46343

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cacttgggga tgctgaggaa gcaataagaa tagctcccag atttcctcag gtcacttat 120  
tgcgaggcga cgcactatth gcaatgggag aatattctgt cgcggaagat gcctatgcag 180  
atgccttgga tcttgatcca tctattcgcc ggtccaagtc tttcagggct cgcgtggaaa 240  
ggctacgaga gaagcttggt agtgccaata atccgtagtt cattttgaag ctctctctgc 300  
atcagaagtt cgatccacaa gtaatgtaga tatgttcttg gtgaaggtaa taatgctcac 360  
acactttgca agccactggt caggaattga tt 392

<210> 46344

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C8

<400> 46344

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gggccgagga ttgaaggaag caaacttcca actagatagc ttgattgcgg agccgcagcg 180  
agaaagcatt tataggaaaa ctgttgaaaga gctcttttct tcaggtagag gggatttcga 240  
tgaagaggaa atgtatgtga agattccagc tgatctcata ataagttctg agaaggccaa 300  
gtcaattgta caggatattg caaagggttag gttggagaaac tcccttgctc aggctattgc 360

gttgcttcgg cagaagaaga gagatgatgt gctttcatct ctgaatgaca tgctcgcatg 420  
tgatgct 427

<210> 46345  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C9

<400> 46345

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acggcagccg gcgtgaggac gactgggttt gcccagctg caagaacgtc aacttcgcct 120  
tccgcaccac ttgcaacatg cgcagctgca accagtccag gccagcagat cacacggcca 180  
tgcagacccc gcctcactat cccatgtcag ggggttacat gggccctggg acgccaccat 240  
cgatgtacct tgggtgggggc gctcccccat atggatcctc aatgtttaat gggcctgcgg 300  
tgacgcgcta tgggtattccg caatttcctg ggggttctgc gtattcatat ggatatgggtg 360  
gtcccatacc aatggggagc ccctacgggc caatgcaaat tgctgggcca actccatac 419

<210> 46346  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D10

<400> 46346

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agaaagcaaa catagaagct gaactgaaga agattgagga acaactggaa aagaagaagg 120  
ctgaatatgc agagaagatg aagaacaagg ttgcaatgat acacaaggaa gccgaagaga 180  
agcgagcgat ggtggaggca aaacgcggtg aggaggtcct gaaggccgag gagatggctg 240  
ccaagtaccg ggccaccggc cacgctccta agaagctcat cggttgcttc ggagcctaag 300  
aaaccttcca agtcagaccg agcagaaagt gaaaaacgtc agccagtgat tgcttggtcc 360  
tctcgctcta tcaagtgtgt agtgtgtctt cgaaagtttg taaagcctac t 411

<210> 46347

<211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-D11  
  
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 cacttcaagt cttgtggaac tggttaacaga gtgacaatcc tgactgacaa gtttggggcta 120  
 ccaaaagggtt ttgcttatgt ggaatttggt gaagttgaag ctgttcatga agctattaag 180  
 tcgaatgaat cagaattgca tggtcgccag ctcaagggtg caccgaatag gactaacatt 240  
 cctgggatga atcaactccg cggtcgaggt ttcaatccat accggtcata tggttatagt 300  
 ccttatgggt atggctatgg ctacaggaga ttccctagat tccgccgtcc gcgaagactg 360  
 tatatgtgaa gctcgtatgt ccatatggta tgcagtacat ggact 405

<210> 46348  
 <211> 229  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-D12  
  
 <400> 46348  
  
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 tatcatatca tcccacacag ggaaacttgg gccagctacc cggcgtacaa aatatcaaac 120  
 atccctacca atgaaagacc tcttattctc cctaccatat ttccaacaca atgttaatca 180  
 ttctctacat aactacatca ccaccaacat cataccacat cgtaacctc 229

<210> 46349  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-D2  
  
 <400> 46349  
  
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 gctcatcaag aatgctgcct acattggcac ccctggcaag ggtatccttg ctgctgatga 120



gtccactggc accattggca agcgcctttc cagcatcaat gtccagaacg ttgaggagaa 180  
 ccgccgtgcc ctccgtgagc tcctattctg ctgccctggg gctctccagt acatcagcgg 240  
 tgtgatcctc ttcgaggaga ccctgtacca gaagaccaag gatggcaagc cttttggtga 300  
 tgtcctcaag gagggaagcg tactacctgg catcaagggt gacaagggca ccattgaggt 360  
 tgatggcact gataaggaga ccaccaccca aggccatgac gaccttggca agcgtgcgc 420  
 caagtacta 429

<210> 46350  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D3

<400> 46350  
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 attgctgact gagtgagcca tcgagagcta gcagcagcag gcacgccgag ctcgccaacg 120  
 atgaacatcc agaggccga tgactaaata ctactgacta gtacatggat ggggacacct 180  
 gctgacacgg gatgaacctg ccggacacag ttggactgca cttaccgaag cagttaccga 240  
 aggtgcagcg cccaatcgaa gat 263

<210> 46351  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D4

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 tgaagaggta gattcattga aggaaacctt tgacaggcat tctctgcgac agaaaaaacg 180  
 gattctggaa gcaaaagaaa gggctgagct atttgaaaga gctaacggtg aatcttcaca 240  
 cgtcctccga atattcgacg acaaacccca gccaaagcat tcatgcccgt accttcttaa 300  
 ggatgctcga agaagcttat gagacaagag tgggtattct tcacaagtac gctgaccaga 360

gggatcggct gaagagtgct caaaggaaag ctttgatgt cctgaacact 410

<210> 46352

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D5

<400> 46352

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gtagcggagg tggggacgtg cggaccagca gcgggaggcg agtgtggcgt cgtcggaaac 120

tgaccaaaga agatgacatg ttgcgttaca agttggatcg tatccctttc ttagaagaga 180

aggtgagaaa ggtaaggag aatgggaaga tcatatgcct ggatattaat cagctgatgt 240

tatctcaaga gaatagattt gcgttcacca tggagggtggc tgaagaagct aatgcctatc 300

ttgagaagaa caggcttgaa tatgggttaa agaagcctat actgcatgtt ctcatgtatc 360

gcatgaatga atctgggttt tctcggcctg agggttacct ttatccttat cctatcaagc 420

ctggccctta 430

<210> 46353

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D6

<400> 46353

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catgcagggc accagcatcc tcggcgtcga gagccacccg ctgcacctgc acggcttcaa 120

cttcttcgtg gtcggccaag ggtacggcaa ctacgacccg gtcaatgacc cgccaagtt 180

caacctcgtc gaccccgtcg agcgcaacac cgtcggcgtg ccggccggcg gatgggtggc 240

catccgcttc ctgcgcgaca accccgggggt ctggttcatg cattgccatt tggaggcgca 300

cacaacatgg ggctcagga tggcatggtt ggtgctcgac ggcagcctcc cgcaccagaa 360

gctgctcccg ccgccgtccg acttacccaa atgttgatta gactcttctt ccatctctat 420

cct 423

<210> 46354  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D7

<400> 46354

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tgaccttgtc aagaggggtcc ttgggtgctt cggccctctg gaattttctg tcgccgtgac 120
catcttcggc gggcggagcc aagctgggac atggggaaag gaacttgggtg cggaggctta 180
tgactgcaac aacatgggtcg agcaggagct gcctggaggt gggatcctca tctaccagag 240
cttctgtgct gctgaagacg ccgttgctag ctgccecaaa tccgttcttc gctgctttga 300
tggcgagaat gcagcacctt ttgcgaagga ctgcaagctg gctaattctg tctgcttgga 360
ggaagttgga tgctatcgag gagaaggatg gagtgcttga tgagtaagac gggtttcttg 420
tgtccatttg c 431
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<210> 46355  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A8

<400> 46355

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ccaataatgg ccggcgtgaa ctccagcgtc gtcgggctca agcccgccgc ggcagtgccg 120
caagccggcg acgactcatc gacggcgaag cgggtgcaac tggccgcgcc cgaaggccgt 180
cgcgccgtc tgctacgcct ggcggacgtc ttcgccgtc 219
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<210> 46356  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A9

<400> 46356

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tgatgccggg gctgtggaag gacatcacca ccaagatcca ccacaaggtc accgagaact 180  
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acaagagca ggagaagctt tcccacagat actaaatggg atgtcctcca agttgctgcg 300  
gcttgctgca gttgaatttt ccatgatggg ttgtataatc tgtcaatgtc atttctttgc 360  
tcagttttag ttcaacccat tttcaccttt ccatatgcat atacggtatc tgtg 414

<210> 46357

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B1

<400> 46357

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gatgacgtac aagctggcga gcttgagcct gaagacaagc tacctgaggg cctctctgag 120  
agctaacacg ttgccgcgga tacagagcca attgaggaca tcttgactct acaacttgag 180  
gagg 184

<210> 46358

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B10

<400> 46358

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gaacatcctg ggaggcctgg ggaaaaattt atgttcactt actcaattcg catgtcagtt 180  
ccagaggcat gcatgctaag tggcgtgtac tattcttcct gccagctttg ctcccgtcac 240  
tggaccatca gatcgtgtga cagggttgtt tctgatgtga gcggatgaag ggttattgga 300  
gagtatccta tactgttacc tggtgaggat gagtttgtct actagagttg cagccactg 360

ccccaagtac caagatctgt tgagggtctt ttt

393

<210> 46359

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B11

<400> 46359

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tgctccgcga caacatccag ggcatcacca agccggcgat ccggaggctg gctaggaggg 180  
gtggcgtaga gcgcattctg ggggtcatct acgaggagac ccgcggcgctg ctcaagatct 240  
ttctcgagaa cgtcatccgc gacgccgtca cctacaccga gcacgcgcgc cgcaagaccg 300  
tgaccgccat ggacgtcgtc tacgcgtca agcgccaggg ccgcaccctc tacggcttcg 360  
gaggctagga taggcgctc ttcgtagtcg gggactggtt atgggacatg tctctgtgtg 420  
atgctt 426

<210> 46360

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B12

<400> 46360

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cgctgggcct cgcgcacgac ccggacaccg ccgcgcagct caaggtgaag gagctcaaga 180  
acggccgcct tgccatgttc tccatgttcg gcttcttcgt gcaggccatc gtcaccggca 240  
agggcccat cgagaacctc ttcgaccacg tcgcccagcc cgtcgccaac aacgcctggg 300  
catagccac gaacttcgtc cccggcaact aactgactga gcaacgccgt acatgtgtac 360  
taccatcaga tccatccatt cgttcgtccg tc 392

<210> 46361

<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3078-015-Q1-K1-B2

<400> 46361

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cgcgtaacct ccgtggcaag aggctggacg gtgggtgtatc tgtgctctcg gttggcgtga 180  
acctgatctg gtcttaagaa ccccggtggc gagttgacat atgcaagggt taagtgttac 240  
atatgtcgtg tgattgaaga tcctcagctg agtataatcg attcggatcg ccgtaccttc 300  
gtggttatga atacttggtc actgccctac acgtagcaat ccagtgaaga tgaagggatg 360  
atgaaaagac cgctagtata agccaagtgc ttgaactang gtagaaagaa ctctagatgc 420

<210> 46362  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B4

<400> 46362

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tgaaaaatat gggaatggca aaccattctc tgtgaacctc agtcttgccg ttggtcttag 180  
tggctggctt ccatgtgccg ggaccttgaa gaacagaatt gaagcctcac cagagtgttc 240  
acaaaaggct tcatcaatac ctcttttgct ctgtcatgga aaagctgatg atgtggttgc 300  
ctacaagcac ggcgagagat ctgctgggtgc cttgaaggca aatggctttt ccaatgtgct 360  
cttcaagtca tacaatagtc ttgggcacta cac 393

<210> 46363  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B5

<400> 46363

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ggctaagcca gagctcgttc catcgttgat gaccatggca ctgaatgatg ccatgacata 120

cgacaagacc acaaaaactg gaggcgcaaa tggatctatc aggctagaaa caagcagacc 180

tgagaacagt gggctctctt ccgcgttgga tttgctgact gaagccaaaa aggagatcga 240

ttccttttcc aagggaggtc ccatttcggt tgcagatctg atccagtttg cagcacaatc 300

agcactgaag agatcgtttc ttgacgctga cattgccaaa tgtggtggaa atgaagagaa 360

gggaagaaca ctgtactctg catatggttc aaatgggcag tggggtctgg tcgatagaac 420

gttcgggaga 430

<210> 46364

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B6

<400> 46364

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caacccatct gccatgacag ggcacgatgg atcatgtatg aaatgcactc ctgtcacagg 180

taggaaccgc accagcgtaa cagcgaagat gcgagacaga gagacaaaga ctgtaggcaa 240

ccgagagctg atgactgcag acaagcagcc agtacagaac tagcaaaacg agccagaaaa 300

ggactgccag aacgccatga tgacacctgt ggagtacatc atgatgacac gcatgtccta 360

catcatcatc atcctcatga tcaccttctt caa 393

<210> 46365

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-015-Q1-K1-B7

<400> 46365

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 tacgcgctct gcaacctctc cggcaccgtc gtgcaggacg gcgcctacgg gtaccagaac 120  
 ctcttcgaca ccaccgtcga cgccttctac gtcgccatgg gcaagaacgg cggctccggc 180  
 gtgccgctcg tgggtgtcga gagcgggtgg ccgtccggcg gcggcgctca ggccacgccg 240  
 gccaacgcga ggggtgtacaa ccagtacctc atcaaccacg tcggacgcgg gacgccgtgc 300  
 caccggggcg ccatcgagac ctacctcttc tncatgttca acgagaacca gaaggagagc 360  
 ggcgtggagc ataactgggg gctcttctac cccaacatgc agcacgtcta ccccatcagc 420  
 t 421

<210> 46366  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B9

<400> 46366

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 cagagctact cgaagaggaa ggagctgata taatccaaac cgagggtggg aaatgttcta 180  
 gcccgcacaa acctggagtg cttggattga ttgaaaaggc aacaccaaca ctgcgccgag 240  
 catactccat ctctcgggct gttagtattc cagtgatgtg ctcgtcaggg ttaagctcgg 300  
 tgactgcacc aatggcagta actgcaggag ctgctggagt tggagtcggt tctgctatta 360  
 acaaactcaa cgacgttgtg gcaatgatcg ctgaggtgag aagcattgcg caag 414

<210> 46367  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C1

<400> 46367

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attaactgaa tctctcagac atcatagtgc catgaatgga tactacagat cacttatect 180  
gaagcaatag atatgcatga tcaatatgaa agaggtagct atcgaagggtg cagcaagatc 240  
cacatcgaat ctgaatggta ccgatgcaac cttttatacc cattgtgggtc atacgatgag 300  
taccttagtg aaacatgcat aggccgacac cgcagttaat gaggccgcag ctgcaacaca 360  
ac 362

<210> 46368  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C10

<400> 46368

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attgtaacta catgtcttag tggaggcgtc atattaagtc ttaggaaagc atcaaaagag 180  
aagggggaca agtagactga tgcaacaaca catgcaggca taggaatcca gcttgctcca 240  
tatttttggc agatagtcaa gttacaaaaa taattataat aaacacttaa aagccaggta 300  
aacatagtgt tttcactaaa ctaattactt gtataaaaaa atctaacctg acagaatatc 360  
ttttgatcag tatatgtagt cttagctaata gcc 393

<210> 46369  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C11

<400> 46369

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cgttggagag gaggcactct cgtctgagga tctgctttac ttagagttcc ttgacaagtt 120  
tgagaggaag tttgtgacac aaggagcata tgacacacgg aacatcttcc agtcactoga 180  
tcttgcatgg acattgcttc ggatcttccc tcgcgaactt ctccaccgta ttccagcaaa 240  
gaccttggac cagtactata gcagagatgc ttgccactga atcactgatc gttgatcagt 300

gtccaatat tttggcaagt gcagctttga ataaattgaa cagattggcc tcgtggccat 360  
 tttcctgtat ttatctgtag tcaggtccaa ttcttttctg ttggtgagcg caagttatt 419

<210> 46370  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A7

<400> 46370

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 agaacttttag tcggccatca tcgttgggtt tgggactgtg tcttctccgt cgatggtgct 120  
 tatcttataa cagcatcttc tgacactaca gcgaggctat ggacgatgtc tactggagag 180  
 gccatcaggg tgtaccaggg tcatcacaag gccaccgtgt gctgctctct ccatgatgga 240  
 gcagaatcag cgccctcata agcatgttgt gactgctttt ctgtacatac gttagattgc 300  
 agaactcttt cactcttgta aacttgagac ctagcaagtt gttaacgcaa gcctctgggg 360  
 ttgcgtacaa ataatttgcg tgctgttggg ggatgtttaa acctgctatg ttttatggaa 420  
 tgaatg 426

<210> 46371  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H10

<400> 46371

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 ggtaccacgg cgtgcgcgag gacaagctca cccgcccga gctgggccac ctgggcaagg 120  
 ccggcgcccc gccgtgcgc cacctgcagg agttccggct caccgccgtc gacgccttcg 180  
 agcccggcca gcccctcgac ttccgacacc tcttcaagga gggcgacctc atcgacgtct 240  
 ccggcaactc catcggaag gggttccaag gtggcatcaa gaggcacaac ttcaagcgcg 300  
 ggctgatgac gcacggttcc aagagccacc ggcagctggg ttccatcgga gccgggacga 360  
 cgccggggcg cgtgtacaag gggaagaaga tgcccgggag gatgggagga accaagacca 420

agatcaggaa gctcaag

437

<210> 46372

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H11

<400> 46372

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gacagtcaac gccaacgccc caaataaaac gctagtaagg agggcagcca tcctgcccc 120

tgtccctgct ggttgccaag ttaggaagga tgccatgaac tcaaaaggta accaaatgac 180

ccctggcaat gccggttctg gagtaccagc cagcagtcag actagcgtgg ctgcacaagc 240

tgccagcaaa gcaaacttac catccagcag cagccaggcc aagcccaata acatggtggt 300

gaatggtggt aacaggctag tggttaatcc accgtccagc agccaagcta gtgcggccgt 360

gaacgacgct aacagggctg cgacaccaca gtccagcaac cctgtcaacg gtgccaacaa 420

cagag 425

<210> 46373

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H12

<400> 46373

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ctactggaga tctggtcaga tgacgagtca tgtggtcata aaactctgta ttcggtcgga 120

tttgacgatg tgaaagccag cttactggcc acaacggctg acgaggaggc tgcattgagt 180

cctacattgc acatggtgca cctagtgtgg tattcaactg acaagagacg tgtcacggtc 240

aacttacaag ctgattgaca tgccggcgcc tgtaaaaacg tagcggatag catgccacgg 300

agaatgcctg agaacctatc tcaactggat ttgtgatcag atcatatgag tagagaaatg 360

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<210> 46374

<211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-H2  
  
 <400> 46374  
  
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 gacagcatca agaacaagct ggagatgac tgtgatgagg tggttgtcca tcccagcaag 180  
 gctctgcgga aacttccaag agtccagcat ctgtcagcgc agttagctgc gcgaataagg 240  
 aacgaagatg atgagtttga gattctaaac accctccatc cgagtccagc tgtttgtggc 300  
 ttgcccactg aagaggcacg ccaattcata cgggattgtg aaatttttga ccgtggaatg 360  
 tatgccggtc ctggtggct 379

<210> 46375  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-H4  
  
 <400> 46375  
  
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 atcatgagga acgtcaaggg ccctgttcgt gagggtgaca tcctcaccct gctcgagtct 120  
 gagagggagg ccaggaggct gcgctgaagc cctggtggcc ttggatgtaa ttctgttaat 180  
 tttgttctat gtttgtcgaa cttgccgtgt gaccttcaca acatctgctt tgagatttac 240  
 tcagcctgga ttgcagtttt attttatgtt cctgctggaa agtgacttgc cgagacatag 300  
 ttatcattgg ttatctataa tagctcaatc gacgcgtgca atctg 345

<210> 46376  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-H5  
  
 <400> 46376

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 cttctggcct acgtcagcgc gtcggcgctca ccggacctcc tgccgatcaa gaagggacct 120  
 caggagccgc cgcagccggg cccgcgcggc aagatctaag ctcagcttct ccatttgcac 180  
 ggtctagtag cttgctttgt actgctagcg ccggtcgacg cgtcgcaatc gtcattggatc 240  
 atctctctat cttgtttgta cgctgttcat aatttggtat atttgccatt ccgctattgt 300  
 gtactctttg gcatacatc aataattaaa atggcgttgc gtggctctca tataattaac 360  
 cttcacataa cctgaaaact caagtacgta tagtatgggc cactttattg tggatt 416

<210> 46377

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H6

<400> 46377

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 tgaacttcct atgcttcacc cagaaaagtt tgtcaagctc ggtattgatc ctccaaaagg 180  
 cgtcctttgc tatggccac ctggcactgg caagacactt cttgcaagag ctgtagcaaa 240  
 tcggactgat gcttgtttca tccgtgtaat tggaagttag ttagttcaga agtatgtcgg 300  
 cgaaggtgct cggatggtca gggaactttt ccagatggcc cgctcaaaga aagcgtgcat 360  
 tggattct 368

<210> 46378

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H7

<400> 46378

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 cagattcctt tgactggccc aaattcagtt gttgggagag catttgtggt tcatgagctt 180

gaagatgatt tggggaaagg gggccatgag ctacagactct ctactggaaa tgctggtgga 240  
 agactggcat gtggtgttgt tggcctgact ccattgtagg ttgctcgccg ggtgcccggg 300  
 ttgcagttgc agctacgctg gtacattctt gccgtggtgg acttttggct tgaatccagt 360  
 tattgggaca gtgaccttta ttgtattact tggattcatt tcatgcatgt ggtat 415

<210> 46379  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-H9

<400> 46379

gactcgctg cttaagcact cgactggcct catggcgccg gccgccgcca aggggatcgg 60  
 agcaagagggc attaacacag ggcactggag cagcacatgc aagctgactc tggacacttc 120  
 cgaccgcacg tggaaaacaa gctagatggc gagcatatta aggaccctga ggacacatgc 180  
 agctggctgt actgcttatg agaagcgatc acgggtgctg atgacagttg gcaaggagct 240  
 gatgcgctaa ggcactggat a 261

<210> 46380  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3078-015-Q1-K1-A1

<400> 46380

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 ccccggccgg cttcgccgc caccggcggc gcgccagca gcacgtcgtc aaggagaagt 180  
 tcgaggaggt cgacacggtc tcacgcgccg gcgccaacca ccaccaccac catggtcacc 240  
 acggcgccca cggcttcgtg gtgcgcgaga ccagggtcga agaggacatc aacacctgca 300  
 ccggcgaggt ccacgagcgc agggagagct tncctgccag ggctaactg 349

<210> 46381  
 <211> 381

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-A10  
  
 <400> 46381  
  
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 cggcggccccg ctcggcgagg tcgtcgaccc gctctacccc ggccggcagct tcgacccgct 120  
 cggcctcgcc gacgaccccg aggccttcgc cgagctcaag gtcaaggagc tcaagaacgg 180  
 ccggctcgcc atgtttctcca tggtcggatt cttcgtccag gccatcgta ccgggaaggg 240  
 cccgctcgag aacctcgctg accacattgc cgaccccgtc aacaacaacg cttgggccta 300  
 cgccaccaac ttcgtccccg gcaagtgagg gaggcgccgc cggtgacctt taggtgtccg 360  
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<210> 46382  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-A11  
  
 <400> 46382  
  
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 cgtccgacac cgacctcggg gccaaaggcg ccaaggatgt caagatccag ggggtctggt 120  
 acgctcagct cgagtgattc gagtgtctaa ctgctaggtg tccgaccggc gtcattggatc 180  
 ttgggaagggt gtatgtatac catggaaaac tttggagagc ataggaggaa tcgtgtatgt 240  
 aatgtacttg ttaatgcaa ttcaggctgt cgctttttta ctcaaaaaa aatgctaaca 300  
 gatctgaagg taaacaaatt gaaggtgata tgaataatct tcaaaagaga t 351

<210> 46383  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-015-Q1-K1-A12  
  
 <400> 46383  
  
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gcgggtctcg ccagccagtc tagggtttcg gtcccggcgt gcttatccgc ccccgccggc 120  
catgtcgaag caaggagga aggccaaagcc gctgaaagcg cccaaggccc acaagaagga 180  
gtacgacgag acggatcttg catatctgca gaagaagaaa gatgaggaaa aagcactgaa 240  
ggagcttaag gccaaaggcac agaaaggcgc gattgggggc tcgggtctga agaaaagtgg 300  
aaagaaacga gactggtcac ccgtctccaa tacctagagg atgataaggc agctgtctat 360  
ctgtgctgcg c 371

<210> 46384  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A2

<400> 46384

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tagcatccca atagcgaaaa gtgaattgct tgatctgctg aaaaaacagt ctttaactgg 180  
gattcccttg cttgtccttg gcaacaaaat tgacaagtca gaagcgcttt ctaagcacgc 240  
attggttgat caacttggaac tggaattgat aaaggaccgc gaagcttggt gctacatgat 300  
ctcctgtaag gattctgcga acatagacgt tgtcatcgac tggcttatca agcactctag 360  
aacagctaaa tacgctttat gggtggtcgg atcacttgat gcatggtaat ttg 413

<210> 46385  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A4

<400> 46385

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gccggcagct ccatctccgg aaggaagctc gccgtcgcca ggccgtcggc ccgctccatc 180  
cgcaggcccc gcgcagccgc cgtggtggcc aagtacggcg acaagagcgt ctactttgac 240



ctcgacgaca tcggcaacac caccggacag tgggacctct acggctctga cgcgccctcg 300  
ccctacaacc cgctacagag caagttcttc gagacgttcg cggctccgtt caccaagaga 360  
ggtctgctgc tcaagttcct gctgctgggc gggggctca 399

<210> 46386  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A5

<400> 46386

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gccgacagca cgaggaagaa catgaaggct gaggccggtt tcaagggtct tcaggtggcg 180  
atcaagtgca agaacagcaa cggcgagtac gagacaaagg ccgtgagtga gatccaaagc 240  
tccggagcct tcagcgtccc actcgccgcc gacctccag gcgccgactg ccacgcgcag 300  
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atgtc 365

<210> 46387  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-A6

<400> 46387

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tactcatgaa tagtaacatt gtatgaagca gctaagtgca agtgacaact tatttaatat 120  
aggatctctt aagaagtgta tttagaagggt tatttaagaa aaaaatagac gagctcttag 180  
cgaatagctt atctctacca gacttcgtac acattgtcta ttaactgtat ttataatcta 240  
gtggttcaga gttatattat acaatatctt agtt 274

<210> 46388  
<211> 379

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3078-014-Q1-K1-H1  
  
 <400> 46388  
  
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 gtggtcaccg aagtgaatgt tatgggtgcag aattgtgttg gccttgaact ccaggattcg 180  
 tcttactatc tcgctcccag atgggtggcg atcttccgtc gtatttacia ctggaggcta 240  
 gcaaagctct ctaccgaaa gttgtcagaa gcttatgttc tgactcagca cctgtatcag 300  
 gtcctacag cagctggctc aaatggtaac acacaagggc ttactgctaa caccgncagc 360  
 aacgatgctt gggatcaca 379

<210> 46389  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-F4  
  
 <400> 46389  
  
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 ggcggcgctg gcgatgccg cggggccctc cccttttccg gggtcttcaa cagcttcgac 240  
 ggcgccgatt tcgacgacga cgacctcgcc tgagggaact gccgcccggt tcggtaacgg 300  
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 cgca 364

<210> 46390  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-F5

<400> 46390

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ctcgtgcccc aaggtcaagg tcatcgcaag catactagtg ttaaagcgaa ggcttactcg 180

gaaggggtgga ttgaatttgc aaagaagagt gttgccaaaga gagtggctaa tctgcttaat 240

ggtgaacaaa taggcggtaa gaagagatct ccattttatt atgacatttg gaacattaaa 300

tacctcagga agttttaaag ggatgatctg gttggtgaaa tggctgagaa aactcatatc 360

agagagcaga aattaacctt ggagatagca gcagcaaaga aacaacgcga tcac 414

<210> 46391

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F6

<400> 46391

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tctgcgtcgc cgagaaggac gacctcaggg acaggggctg ctggtactac gagagcctca 180

aggccagcgg ctaccctggc gaggtggagc tgctcgagtc catgggcgag ggccacgtct 240

tctactgcat gaaccgcgcg tgcgacaggg cgcgggagat ggaggagcgc gtctctcggt 300

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<210> 46392

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F8

<400> 46392

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gccggcgtga actccagcgt cgtcgggctc aagcccgccg cggcagtgcc gcaggccgcc 120

gccgcctcat cgccggcgaa gcggggtgcag ctggccgcgc ccgagggccg ccgcgccgct 180  
 ctgctcggcc tggcgggcgt cttcgccgtc acggccacca ccgggtcggc caaggccacg 240  
 atcttcgatg agtacctcga gaagagcaag gccacaagg agctgaacga caagaagagg 300  
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<223> Clone ID: LIB3078-014-Q1-K1-G1

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 ccagcagcgt tcagaggaaa cccatttacg tatatgcctt tgtcccggtt cctttcccca 180  
 tccccaaact cattatttgc ttgatccttg agaagagaga ggaagacgag agctagaagc 240  
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 aagaggattc agaaggagct caaggatctg caga 334

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<223> Clone ID: LIB3078-014-Q1-K1-G10

<400> 46394

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 gctcgacaag gtgtaccccg gcggcgctt cgaccgcgtg ggcttcgccc acgaccgga 180  
 caccgcgcc gagctcaagg tgaaggagct caagaacggc cgccttgcca tgttctccat 240  
 gttcggcttc ttcgtgcagg ccatcgtcac cggcaagggc cccatcgaga acctcttcga 300  
 ccacgtcgcc gaccccgctc ccaacaacgc ctgggcatac gccacgaact tcgtccccgg 360

caactaactg actgagcaac gccgtacatg tgtactacca tcagatccat ccattcgttc 420  
gtccgtccgt cgagtg 436

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<211> 428  
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<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G11

<400> 46395

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tatgtcatgc gaggggttcg cgggggcggt cagaagagtg ctctccaaga tggaaggagt 180  
tgaaaccttc gacatagacc tcaaggagca gaagggtgaca gtcaaaggca atgtcaagcc 240  
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agccacggcc cgggacgtg cggcggttc tggagccgaa gcagctcccg gcaccgcggc 360  
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ctgatcgt 428

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<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G12

<400> 46396

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ggcgctgatg cacagcgaag gcatgctcgc tggcgagatg aagcacgggc cgctggccct 180  
cgtggacgag aacctcccca tcattgtcat tgcgactcgc gacgcgtgct tcagcaagca 240  
gcagtcggtg atccagcagc tcctctcgcg tagggggcgc ctgatagtga tgtgtccag 300  
gggagatgcc tcggctgtgt gccctagcgg tgggtcgtgc agagtcattg aagttccaca 360  
ggttgcagac tgtctccagc cagtgatcaa cataattcca ttacagttgc tcgcgtacca 420

tctgactgtt ctccgg

436

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<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G2

<400> 46397

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gatccaagag atgtcagtgt tcctgttggt ggagggcatg ctgggataac tatattgccc 180  
ctcctctccc aggttacacc tccgagctca ttcactcagg atgaaaccag atatttgaca 240  
gaccgcatac agaatggtgg cacagaagtt gtggaggcaa aggctggatc aggctccgcg 300  
actctgtcaa tggcttttgc tgctgctaaa ttcgctgacg catgcttgcg agctatgcgg 360  
ggc 363

<210> 46398  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G3

<400> 46398

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accaggaacc ggtgggtatg gctatgggac gaaaaatgac aagaataagg atgtggatac 180  
aatagcttcg gacttcatca agctgaagca caaggcttgg gcactccaga agagcacaac 240  
catgtaccaa ccttctacct aaaggtgtca atagttcaag aagttgatac tatatactta 300  
tgcttgcttc tgtatagtct ataagtccta attcaaataa caggtgctgc ttgcagcctt 360  
ggatatttgc ggatgccg 378

<210> 46399  
<211> 365  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G4

<400> 46399

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aacatgcgca acacgatcaa ggacgagaag attgcgtcca agctgccggc cgatgacaag 180

aagaagatcg aggacgcat cgacgcggcc atcagctggc tggacgcaa ccagctcgcc 240

gaggcggacg agttcgagga caagatgaag gagctggaga gcctctgcaa ccccatcatc 300

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gcccc 365

<210> 46400

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G5

<400> 46400

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gaggttgtca ccaggagta caccatcaac ctccacaagc gcctccacgg ctgcacattc 180

aagaagaagg cacccaacgc catcaaggag atcaggaagt ttgcgcagaa ggccatgggc 240

accacggaca ttaggattga tgtgaagctc aacaagcaca tctggagcag cgggatcagg 300

agcgtgccgc ggagggttcg tgtgaggatc gcccgcaaga ggaacgacca ggaagatgcc 360

aaggaagagc tctacttcc 379

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<212> DNA

<213> Zea mays

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aaccgacaac atgatactgg ctttcgggag ctcttagaac ccaaagtctg gactgataag 180  
catttggcag gtgaagtaca aagctttgct gcattgatga agcaggcatt aactgaaatg 240  
actgatgagt atcatgtcgc aaatgctatg gcaaaaatcc ctcaagcacc ttcctcagat 300  
cttgtattta taccactaca agcctacctg aaagttctca aatttatcga gtgtgttcaa 360  
tatggcaaaa aggaacgtgg ccatgaacca aaacg 395

<210> 46402

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G7

<400> 46402

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actcggacaa ccagcccggg gtccctgatcc aggtctacga gggtagagagg acccggacac 180  
gcgacaacaa cctgctgggc aagttcgagc tctccggcat cccccctgca ccccggtggtg 240  
tgccacagat caccgtgtgc ttgacatcg acgccaacgg catcctgaac gtgtctgccg 300  
aggacaagac aacggggcag aagaacaaga tcacaatcac caacgacaag ggccgtctct 360  
ccaaggagga gatcgagaag atggttcagg acgctgagaa gtacaagtct gaagatgaag 420  
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<210> 46403

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-G8

<400> 46403

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tgccaaagcg atgcttcatt gtatcaagca ggcttgcacg ggtggaagat gagcttatgg 180  
agatacaaaa gtcacaagag caaagttcag taaaatcaaa gaaaaggcca cctttgagggc 240  
gtggaaaggt ctccccacaa cttcctgtac cagggcacat tccaagacca tcttatgttg 300  
gtgcgaaagg attgcctgaa ctatgcaagg gcccaattaca tgatgctcaa ggaattactg 360  
gaatg 365

<210> 46404  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F3

<400> 46404

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gccgcgctca acatcgtgcc caggtccacc ggcgcgcgca aggccgtctc gctgggtgctc 180  
cccaacctca agggcaagct caacgggatc gcgctccggg tgcccacccc gaacgtctcc 240  
gtcgtcgacc tcgtcgtgca ggtctccaag aagaccctcg ccgaggaggt gaaccaagcg 300  
ttccgcgacg ccgcggccaa cgagctcacg ggcattctcg 340

<210> 46405  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D8

<400> 46405

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cgccaccgcc gcgctcctcc tagtccacca gcccgcccc ctggcagatg tgcttgtgaa 120  
agccaaggcg caggtagagg tgatcaaggg gttgtacgcg cgcctggcgg aagtctctca 180  
ggaatgccct gggcagtact acaggtacca tgctgattgg aggactgaga cacatatggt 240  
agtgtcgatg cttgcattca tgcactggct ggagacaggt ggcctactca tgcattgctga 300  
agcccaagag aagctagggt tgtgctctgg ggagttt 337

<210> 46406  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3078-014-Q1-K1-E1  
  
 <400> 46406

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gacacaagta tttgctgcta agctatccaa tgaactagct cagtctcagt atatatgctt  120
tagacctgaa ggtaatggac aggagaacag gagtggggta aatgcacaag cagagagaca  180
ggatctgtag aggtaggcga gagatactcc ggtgtactct gtacatgggt ctaaaaaatt  240
gggcagaaac tggattgtcc agaccgttca tatacgttgt actaaccagt tgttgacta  300
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<210> 46407  
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 <213> Zea mays  
  
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caggaaagta ggtcgaggat gccccgcagc ggcttctcgg ggtccttcag gtcgccaag  180
atcgacgtcg tcatcgacat gggaaacccc ttcctcaacc gcaccgtcga cggcttcctc  240
aagatcggcg ccgtcggcgc ctgcaagggt gctgccgagg agaccttcga gtgcctccac  300
aggggggatg tttcgaagca caaggttgag catgccctga ggaagatgtg caaggagggc  360
gcatattggg gcactgttgc tggagtttat gtgggcatgg tgtacggcgt ggaaagggtc  420
cgtggccgca g                                                     431
  
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 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-E12

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ctacggaaaa ctgaacaagc agaggatccc tctgtctaac aaccaagtca tcgaggaagg 180  
cttgggcaag cacaacatca tttgcattgg agatcttggc cattaaaacc ttaattgtcg 240  
gccaaaatth aaaggaggcg aacaacttcc ttggggcatt taagctgaag gcaccgttgg 300  
aaggcctgaa aaggagaagg accccttttt tgaaggttgt gaatcccgta accgtgagaa 360  
ttacattaac gagctcatta aaaggatgaa ttaggttcac gatcaagctc tattgtgttc 420  
taagaaact 429

<210> 46409

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-E3

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gaaaaagctt acattgggat gccagtgggtg accaatgctg ctgttcacgc agtggttgaa 180  
gaacagggac gggatgataa agttatagtg ttcaagtaca agaagaagaa gaagtaccag 240  
aggaaacttg gtcacagaca gccaaacaca aggttaagaa tcacaggcat aagtggatac 300  
gaagagtacc ctgctgacct aatacttgac cctgctgcag ctttaaatta aactgtaagt 360  
tatgtagtta caaaacggct ggtagtagaa tagcatgcta gatttcttgg ttctttcctt 420  
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<210> 46410

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-E5

<400> 46410

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aagaagtcgc gcgtcaagtg cttcatcaag ctctgaact tcacccacct catgcccacc 300

cgctacaccc tcgacgtcga cttcaaggac gtggccaccg gcggggccga cgcgtcttc 360

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<223> Clone ID: LIB3078-014-Q1-K1-E6

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cctggccgtg ctcggtctcc aggtcatcct catgggcctc gtcgagggt tccgcatcaa 180

cggcctcgac ggcgtcggcg agggcaacaa cctctacccc ggcgccagt acttcgaccc 240

gctgggcctc gccgacgacc ccgtcacctt cgcgagctc aaggtcaagg agatcaagaa 300

cggccgctc gccatgttct ccatgttcgg cttcttcgtc caggccatcg tcaccggcaa 360

ggggccctt gagaacctgc tcgaccacct tgacgacccc g 401

<210> 46412

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-E7

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aagagcaccc cagaggccga gaaatacttc gcagcaacca aagatgctct tggcgatggt 180  
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 cttaact 307

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 <211> 384  
 <212> DNA  
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<223> Clone ID: LIB3078-014-Q1-K1-E8

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 agaaaaggaa atctggtaac acgtcggctg aagggtgaacc gtctcaagct gctgttgtgc 240  
 gctatgctac ggttgagtcg ccatatcccg caaaggggaa gtctgcctca aagcttccag 300  
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 <211> 418  
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 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-E9

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 gctgcagtg ccttcacgaa caagagccta gtctctcggc acgcagcgct acgggtctgc 240  
 tcgtcgaggc gctcgatccg tagcctggtc gttaaggctg caactgtcgt caccctaaag 300  
 tacacttcac tgaagcctct gggagatagg gtgcttgtga agcttggtgc cgagaggag 360

aagacagttg gtggcatttt gcttccatct actgcccaga ctaaaccaca aggaggtg 418

<210> 46415

<211> 338

<212> DNA

<213> Zea mays

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gtacaagatc gtttttagatt ctgacgatgg ctttttcggt ggatttagtc ggcttgatca 240

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<210> 46416

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F10

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cgatctagtg ctggcgtcac aagcaacggt gttcacaaga ttctgttccc tgatgggtcat 180

caaagtgacg atgaacctcc aagtggggac atgcggtatg gtacaggacg tttctacaag 240

gagaatggga gtatagaagg gagattgggg aactgtgact ccgactcaa ccatcatacc 300

tttgatgaag cgagcgtggg caagtttgag aatggaggga ctcatcagg tttggatctg 360

tatggtgagt cgatggcggt acttcagtcg gcacaagaag cgcttgacaa tgagatcaa 420

aagttt 426

<210> 46417

<211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-F11  
  
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 aacaaataaa aggaggattt atggagtttg acaaattgat tgcatcacct gatatgatgc 180  
 ctaaggttgc gggcttaggt aagattctag gaccaagagg actgatgcct aaccccaaag 240  
 ctggcactgt ttcttcaaat attactcagg ctatagaaga gttcaagaaa gggaagggtg 300  
 aatacagggt tgataaatca ggaattgttc atattccatt tggcaagggt gactttccag 360  
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<210> 46418  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-F2  
  
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 ttgaatactg ggaagcacga taggacgctg gtgctctgga ctgcgagagg cgcatttggt 240  
 atccacggcc acagtagcca gcccagggg gggcacacag actgggcatg aagaagagga 300  
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 aaaatgtaag acctttatta 380

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 <213> Zea mays  
  
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ttcaatacag aagccatgga tgttggttagc aatgacaaaag ggcagatgtc tggcggtcat 180

ctgaagagaa gagatacagg agaagaatca gttcttactg tgaaaggctt attttatggc 240

ataggacata ctccaaacag tcagctgttg cagggccaaa tcgaacttga tagtgctggc 300

tatatatttag ttaaagaggg ctacagccaaa acttcagttg atgggtgtatt cgctgctggg 360

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<210> 46420

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C2

<400> 46420

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cggagacgac gtcgagctcg tatctcgtc cgccgccctc atcaaccaga aatgccatgt 120

gaagaagaag gatatccgaa agtttttggg cggatatctat gtgagcgaca agggcgatcat 180

cgaagaggag cagtgagcga cagagtagcc gaaatgccag gagatgaata tgaatgtcgt 240

ttgagttgca attttgtgag actgaatgtg aaccattttt ctcatcctt aaatagttga 300

ctgccggtgt tcgtggtttc aaacggaatt tagtcttatt aactgaattt gcgtattc 358

<210> 46421

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C3

<400> 46421

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gcgcgtcctt ggccgcgggc aagctcgaga agatcgtcgg cgtgccca tccaagcgca 120

ccttcgagca ggcgcagtcg ctccgcatcc cgctctccac gctcgacgac aaccgctca 180



tcgacctcgc catcgacggg gccgacgagg ttgacctga cctcaacctt gtgaaagggc 240  
 ggggtgggtgc tcttcttcgt gagaagatgg ttgaggcagc atcggacaag tttattgtta 300  
 ttgttgacga gacaaaacta gttgatgggt taagaggtag tggctagcc atgccagtgg 360  
 aagttgtgca gttctgctg 379

<210> 46422  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C4

<400> 46422

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 agcatagatc tgtgctccac tctgatgct ctctcccag cagtaccttg agctgtatcc 180  
 ccgagattcc ttaaccagcg cgagccaata tactgttgcg tgttctctg caaatgagat 240  
 gttctgcacc tatgcttgta atgttgatt tctgggtttt taagctatcc aacttgaga 300  
 tacaaccggg gaggaagcag caacaatagg tagttctact tctgagtga gaaaaacaac 360  
 ttgcggctga gttaatga 378

<210> 46423  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C5

<400> 46423

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 tgatcttcac ggcgacgccg ctggccaacg cgggcacggg gacggccggg gtggcagagg 120  
 gcgcgtccgt gatccaggcc gcgttgacc ggatggacga cgggtactgc cggtcagcgc 180  
 tggactacct ggagctgcag ccggacctgt cggcgctggg ccgcggggcg cacacgttcc 240  
 ggtgccccaa cctggggctc accagctggg tgcgcctgcc catccacgac gcggacttcg 300  
 ggtggggggcg gcccggttc atgggccccg ggggcatcgc ctacgagggg ctgcgcttcg 360

tgcttcccag cg

372

<210> 46424

<211> 413

<212> DNA

<213> Zea mays

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<400> 46424

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cacgctcgcc ctagcccccac gcgtcgaccg cccctgctcc cttctgcagc ctcaactccc 120  
tcacggctgc tcccatgacc tttcccatcc atggccatca cccatctgaa gtcgtggagc 180  
acgccatggc ctccaatgtc gtcagtctcc ggagcgccgc gtggccgctg ctctaccatt 240  
tcctggtaga ttggaccgga acagactaac ggagcggagt tctgctatta atcattatag 300  
gtacgctaga tgattatgcg atatgaaggc catgaaccag actgaaccac aagatggatg 360  
atctgaccca gtgccaggat gagagatgct caccgagtgg tcctcgtttt gac 413

<210> 46425

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C7

<400> 46425

cccacgcgat cgcgttgctg tatectcctt cgtaccatca ctctctggtc gcgcactctc 60  
acctgcccgc gccgtctgct accgccacca agatgaacaa ggagaggctc atgaagatgg 120  
tcggctccgt ccgcaccggc ggcaagggca ccatgcgcat gaagacgaag gctgtacaca 180  
agacggtcac cacggacgac atgaggctgc agggcactct caagagagta cgggtcaaca 240  
cgcatctctg caatccagga ggtgaacata ttcaaggacg atctcagaat ccagctcttg 300  
aaccctaaag tgcaagcttc catcgtagca aacacgtggg tg 342

<210> 46426

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C9

<400> 46426

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gaacaggcgc cagagtggga tccagcagtt gctggctgcg gagcaggagg ctacagcaaat 120  
tgtgaatgcc gctagagctg ccaagtcagc gaggctcagg caagcaaaag aggaggctga 180  
gcgggaaata gccgaatacc gtgccagat ggaggctgag tttcagagga aggttgcaga 240  
gagcagcggc gactccggtg caaacgtcaa gcgtctcgag gaagaaacgg cggcgaagat 300  
cgagcaactc acccagcagg ccgcaagcat ctccccggat gtcattcaga tgcttctgcg 360  
gcatgtcacc accgtcaaga actgaggagt gctgttcccg aactatgctc gcagacttgt 420  
accgtcgatc ta 432

<210> 46427

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-014-Q1-K1-D1

<400> 46427

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gggcgagcgc gtgccgttcc tcttcaccgt caagcagctc gtcgccaccg gcaagccccga 120  
gagcttcggc gggcccttcc tcgtgcccag ctaccgtggc tcttccttcc tcgaccccaa 180  
gggcgcggc ggctccaccg gctacgacaa cgccgtcgcg ctccccgccg ggggcagagg 240  
tgacgaggag gagctccaga aggagaacat caagaacgcc gncttctnca ccggcaacat 300  
cacgttgagc gtcaccaaga gcaaccggga g 331

<210> 46428

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D10

<400> 46428

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 acatcgtctc cggcctccgc tacaccaaca ccgtctggaa gacggggctc aaagttgaca 120  
 gagccaagga gatgctcggc acgttcagcc ccagctgga gccctacacg tacgtgacgc 180  
 cggaggacac caccctcgtc ggaatgtttg cccgggggtc ctactctgcc aggaccaagt 240  
 tcctcgacga cgaccgcaag tgctacctgg agatcaacta caccttcgac atccgccggg 300  
 agtggccgtc gacgagctga ccatacttcc ctccctccat cggtgacctg agcagaccag 360  
 tcgtttcgtt ctgtgttctt ccttttctat gttgcctcgt cctgtcctgt cactaggttt 420  
 tttgttt 427

<210> 46429  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3078-014-Q1-K1-D11  
  
 <400> 46429

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 tcgcaggatg cctcatcatg ttcgccaact gcatttgctt gtctgcgtgg atggttctgc 120  
 aggtcccggg tctgaagaaa taccagcta agctgtcgtc tttcgccatc actctggcgt 180  
 tgggtttcgt ccagctcgtc gtcgtcgcgc cgtttttcga gagcgacctt gagaggtgga 240  
 agatcagctc cggaggcgag cttttcacca tcctgtatgc tggcgttgtg gtgcttgga 300  
 tcgcctggta tctcatgatc tggcgcataa acaaaggaag gcctcacttc gtttccgtct 360  
 tccagccact gcaaaccgtc atggtcgcca tcatggccgn catcttcctt ggcgacacac 420  
 tctacattg 429

<210> 46430  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-D12  
  
 <400> 46430

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accatggcgt ccctctctc tgccgccatc accgcccctt ccttcacggc cgcgcccgt 120  
 cgcgcagtgg tcagcaggag gtccttcacc gtggtgctt ctctccgcaa ggccactgcc 180  
 accgccgccg tggccgttgc cgccagcgtc ctgcttgccg gcggcggcgc catggcccag 240  
 gaggtgctgc tggggcgcagg cgacggcggg ctgctcttcg agcccagcca gttcacctgc 300  
 aaggccggcg acaccatcac cttcaagaac aacgcgggct tcccgcacaa cgtcgtgttc 360  
 gacgaagacg aggtgccgag cggcgtcgac gctccaaga tctcgcagga ggagtacctc 420  
 aacgcgcc 428

<210> 46431  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D2

<400> 46431  
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 gatctcagcc atggcggagg tggagcagcc ccaggacgcg gtgaagctct tcaaccgctg 120  
 gaccttcgac gatgtccagg tgaacgatat ctgctgaac gactacctgg ctgtgactgc 180  
 ggccaagcac gcgacattcc tgccgcactc cgcggggcgc tactccaaga agcggttccg 240  
 caaggcgcag tgcgccatcg tcgagcgctt caccaactcg ctcatgatgc acgggcgcaa 300  
 caacggcaag aaggtcatgg ccgtccgcat catgaagcac accctggaga tcattcacct 360  
 gg 362

<210> 46432  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D3

<400> 46432  
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 gccggcgtga actccagcgt cgtcgggctc aagcccgcgc cggcagtgcc gcaggccgcc 120  
 gccgcctcat cgccggcgaa gcgggtgcag ctggccgcgc ccgagggccg ccgcgccgct 180

ctgctcggcc tggcggccgt cttcgccgtc acggccacca ccgggtcggc caaggccacg 240  
atcttcgatg agtacctcga gaagagcaag gccacaagg agctgaacga caagaagagg 300  
ctggccacca gtggcgccaa ctttgccgcg ccctacaccg tggagttcg 349

<210> 46433

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D4

<400> 46433

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ctgccttagg gatgatccag cgacaaggcg ctggctccaa cagctcctgc acaatgtgac 120  
tggcggaggc atgggaggtg ctcccaacc aggaatggat cccatgaaca tgggaatgtg 180  
atgtgcattc tagttgttgc aattcactgc aataacacat cacctctcag tgaattacaa 240  
ctagagaaga tctggccact gtccagatga aacttagtat ggtgtagcct gactttctgc 300  
cggggtaaaa ataggaatgt tgtttggtat tgccataagc taagctgtag aaacaagatc 360  
ggcaggcttc 370

<210> 46434

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D5

<400> 46434

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taagcagctg acaaaaagcc atacacatcc actcggagga acagcatatt taaatctaga 120  
aatgaagac gaaccgtttc tacatggaat caagtacaca gctatgccac ctaccaagcg 180  
gtttagagat atggaacagt tatccggtgg ggagaagact gttgcagcac tggctttgct 240  
ctttgccatt cacagtttta ggccatcacc gttcttcata ttggacgaag tagatgctgc 300  
tctggacaat ttaaatgtgg ccaagggttc cgggtttatc agatcaaat catgtgaacg 360  
tgttggtgat gaacaaggca gcgatggcga aagtggtttt cagagcatag gtatatctct 420

<210> 46435  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-D6

<400> 46435

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gcctacccgc ggtcctcgtc gttcacaggc ggcgcgccct cgtccaggtc cagtcgtcct 120  
cgttcacgaa ggcggcctcg tccagcctac tgttccttct gctacaaatt catagtcact 180  
gatggggaag gcaaagcgtg cctcgatctt catcaggctg gtttctgcag ccggcactgg 240  
attcttctac gtgaagcgca agaatcctcg tcgcatcacc gagaagcttg agtttagaaa 300  
gtatgatccc cgtgtgaaca agcatgttct ggttaccgaa gcgaagatga agtgagatct 360  
tggttcttca caatg 375

<210> 46436  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C12

<400> 46436

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tgctcgccac gctcaggcgt tgtccacgca gtggctcacc ggagtgcctt ggaaggacgc 120  
ctgcaacggg gacttggtgt actgttcacg actagcagtg tcagtcgctg tcgcgcatca 180  
tctataccct catgaagacc gaggtcatg agatcggtta catctagtct cagcgaagct 240  
gctaacaatga catggagaag aagctgctct tcaagcggat ctacttgac cgcctcggcc 300  
tggagctcga ccctgacaag actgagcgac tgcagctgcg agagatcata gcacagcgct 360  
gac 363

<210> 46437  
<211> 262

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-A7  
  
 <400> 46437  
  
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 tctatggagc aactcacca tacatgccaa tacattccgc tactcatgat cttcaaagag 120  
 catggcccca ttcgtagact cgatgaacct cacctgtcgt caccgtcaaa tactccggct 180  
 ctgtacactc cttccaccct gtcgcatact cccaagcccg ctgctccacc cactttgtcg 240  
 gagtctacac caccgtattc tc 262

<210> 46438  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-A8  
  
 <400> 46438  
  
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 ggaaacccaa gcaaagaagg agaggctgta catggagagg ctgaggaaga agaggctttt 120  
 ggctgaagtc aaattcttgc gtaagagata ccaatctatg gctaagaacc cctctcagac 180  
 aattgcttgt agagtgaaga atccagcact gtcgtctgca tcctggaggg ctgcttcggg 240  
 aagtgacgcc cagcaccagt tggttcgtgc tgtcgggagc tccagtagaa accagctggg 300  
 gcagccaagg cgcggtggtt ctccaagggt gtatccggcg attgacctca atg 353

<210> 46439  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3078-014-Q1-K1-A9  
  
 <400> 46439  
  
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 ctaccgcgtc ggcgggcgcc cgctcgggga agggctcgac aagggtgtacc ccggcgggcg 120  
 cttogacccg ctgggcctcg ccgacgaccc ggacaccgcc gccgagctca aggtgaagga 180



gctcaagaac ggccgccttg ccatgttctc catgttcggc ttcttcgtgc aggccatcgt 240  
caccggcaag ggccccatcg agaacctott cgaccacgtc gccgaccccg tcgccaacaa 300  
cgcttgggca tacgccacga acttcgtccc cggcaactaa ctgactgagc aacgccgtac 360  
atgtgtacta ccatcagacc catccattcg tccgtccgtc cgtccgtccg tcgagtgaac 420  
agtgtggtct 430

<210> 46440  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B1

<400> 46440

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tccaaggcgg agggcccat ccggagaccc ggggcgcccc cgtgtcgc accgccaag 180  
acgccggctc tgtccactcc tcccaccctg tgcagcctc ccaagcccg tgctccacc 240  
acgtcgtcgg agtcgacacc accgtctcct cagccgaagg cggctgtggc cacagcccc 300  
gcggcagcgc tgcagaggcc gctggctggg gctgtgacgc ttgagta 347

<210> 46441  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B10

<400> 46441

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accctcgcga gtcccgcact cccgcagccg ccgcacagat ggcaccaag gcggagaaga 120  
agccggcggc caagaagccc gcggaggagg agcccgcgac agagaaggtg gagaaggctc 180  
cggcggggaa gaagccaag gccgagaagc gcctcccggc gggcaagtcc aaggaggcg 240  
gcgagggcaa gaaggggaaa aagaaggcga agaagtccgt ggagacctac aagatctaca 300  
tcttcaaggt gctgaagcag gtgcaccccg acatcgcat ctctccaag gccatgtcca 360

tcatgaactc cttcatcaac gacatcttcg agaagctcgc ggccgagtcc gccaagctgg 420  
cgcgc 425

<210> 46442  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B12

<400> 46442

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gtccccgggc agcgcaggca gccggactgc gggagtcacc tccatggcct cggctgctac 120  
tgcaaccctc cccaaggttc agttgaggcc aagatgcaac agctactttc aggtgaccgg 180  
tcaagtccat gccacacca aaacatgcgt tgcttgaag tgtccgacct atatccacgg 240  
gttgcttgtt tcagctggag gaaggaggac attcctgccg gtgtctgcag ttggatcagg 300  
tcagggtcctc tcgggtcactg aggccgacag gaagagcgat ttgtcgtctg agaacgtcaa 360  
gacgtccggt gtatcccgcg acgatgaaaa gattaatgta cgagtgcagt tgcctggaaa 420  
g 421

<210> 46443  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B2

<400> 46443

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cttgtttttg tctgatatgt aatctagcgc atgtcacaca tatgtattcc cttcctttga 120  
ttgaagggct aatggtatga tgtctttttt ttttgataaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa 240  
aagaaaaaaaa aattaataaa aaattttataa aaaaaaaaaa aatttaa 287

<210> 46444  
<211> 226

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B5

<400> 46444

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 gaccgaccag ctgtatgtct tcatcggtgc cttcgtttct gcgtcgctct cccatgcatg 120  
 tttatgcatg atgccgtgcc gtctcggtgt cagctgggtc agtagtgatg cttactttct 180  
 tgtcggtgtt gctaatagtaa gaaataagac gatgcggtga ctgctt 226

<210> 46445  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B7

<400> 46445

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 tctttctcat tgagctggcc tgcagcattt gttgtccttc aggctcgta cttctttatt 120  
 cactatatat ttgcaagcca aactgcacat gttggagctt tatactcagc atttcttgcg 180  
 atgcatttag cagctggtgt gccagctcta atgtcggcac ttgctttggc atacaatgca 240  
 aacctctttg gagcactaac acactatagt agcgggcaat ctgcagtata ctttggagcg 300  
 gggatatgtt accttccgga tgtattcaag ctgggtttta taacagccgc aatcaatgct 360  
 gtaatttggg gagttgctgg tgcattatgg tggaaatttt tgggtcttta ttg 413

<210> 46446  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B8

<400> 46446

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 caaggcagta cgtacgagta cgatcgacaa tgtcgacggt cacttcttgc acctttctga 120  
 gcctcgggtc cccagtgcgg ccggcagctc cctccgcgag accggcggcg gcggcggtgg 180

cttccccgacg gaggcccccg tccctttctg tgtgctgcga ggccggcccg aaaggggatc 240  
acaacccaaa gacggatctg catccattta acatccctgc cttcgttctg gtgcaccccg 300  
tggcaccacg tgaggaacgg tggcagctgg aagaggacgc cgacaagggtg aacctgtggt 360  
tcgaggtgcc tgggcagt 378

<210> 46447  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B9

<400> 46447

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ttcatgtgcc agggcggcga cttcacccgc ggcaacggca ccggcggcga gtccatctac 120  
ggcgagaagt tccccgacga gaagtctgtg cgcaagcaca ccgcccccg tgtgctctcc 180  
atggccaacg ccgggcccac caccaacggc tcccagttct tcctctgcac cgtcgcgacc 240  
ccttggtctg acggcaagca cgtcgtcttc ggccaggtcg tcgagggcat ggacgtcgtc 300  
aaggccatcg agaaggtggg caccgcgaac ggctccacct ccaaggtggt caaggtcgtc 360  
gactgcggaac agctctccta gatctctctg atctggtctg ttccggccgc ctcctccgt 420  
catcgtcgac tcccc 435

<210> 46448  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C1

<400> 46448

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